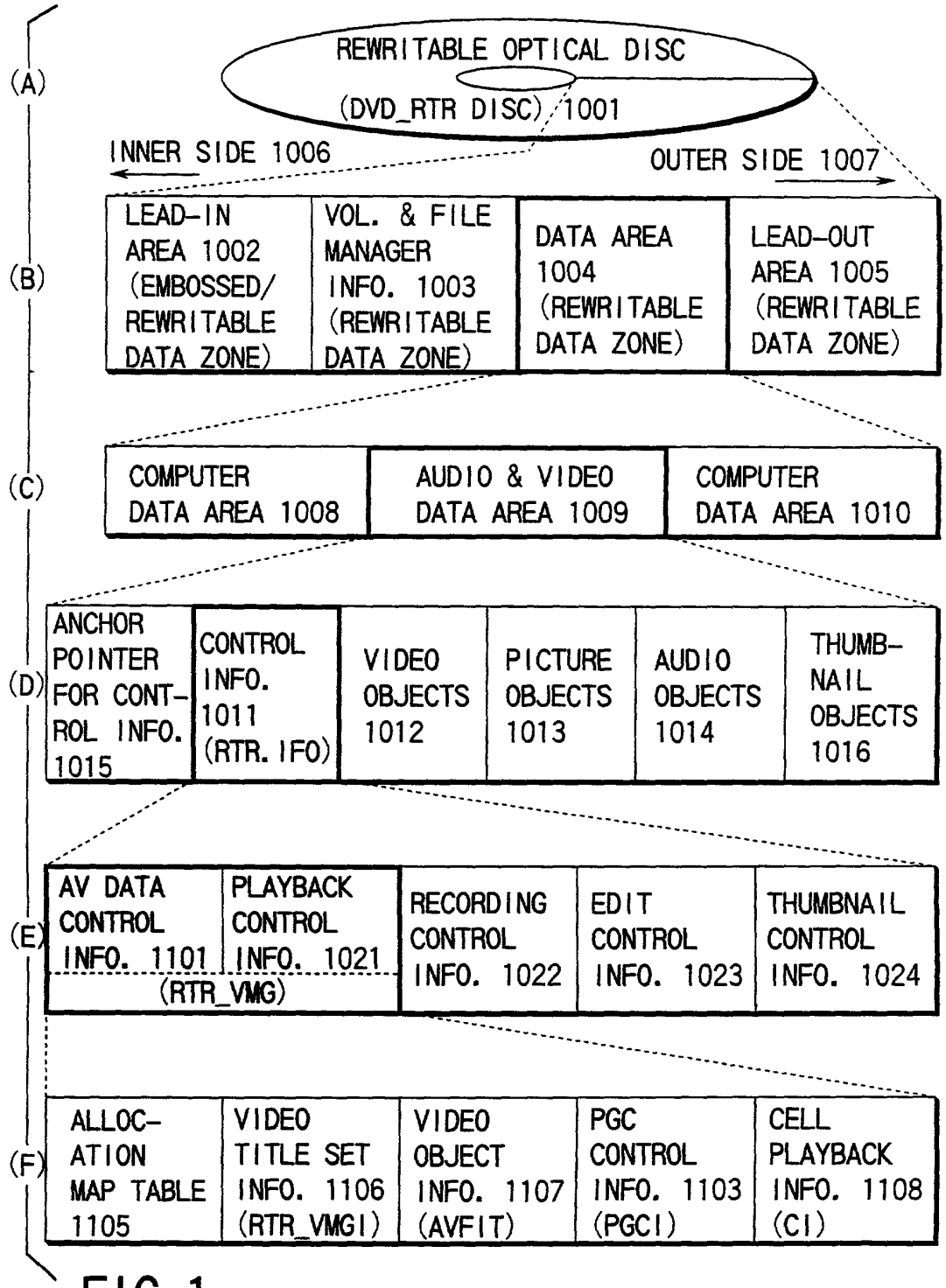
(A)
REWRITABLE OPTICAL DISC
(DVD_RTR DISC) 1001
INNER SIDE 1006
OUTER SIDE 1007
(B)
LEAD-IN AREA 1002 (EMBOSSED/ REWRITABLE DATA ZONE)
VOL. & FILE MANAGER INFO. 1003 (REWRITABLE DATA ZONE)
DATA AREA 1004 (REWRITABLE DATA ZONE)
LEAD-OUT AREA 1005 (REWRITABLE DATA ZONE)
(C)
COMPUTER DATA AREA 1008
AUDIO & VIDEO DATA AREA 1009
COMPUTER DATA AREA 1010
(D)
ANCHOR POINTER FOR CONT-ROL INFO. 1015
CONTROL INFO. 1011 (RTR. IFO)
VIDEO OBJECTS 1012
PICTURE OBJECTS 1013
AUDIO OBJECTS 1014
THUMB-NAIL OBJECTS 1016
(E)
AV DATA CONTROL INFO. 1101
PLAYBACK CONTROL INFO. 1021
(RTR_VMG)
RECORDING CONTROL INFO. 1022
EDIT CONTROL INFO. 1023
THUMBNAIL CONTROL INFO. 1024
(F)
ALLOC-ATION MAP TABLE 1105
VIDEO TITLE SET INFO. 1106 (RTR_VMGI)
VIDEO OBJECT INFO. 1107 (AVFIT)
PGC CONTROL INFO. 1103 (PGCI)
CELL PLAYBACK INFO. 1108 (CI)

FIG. 1

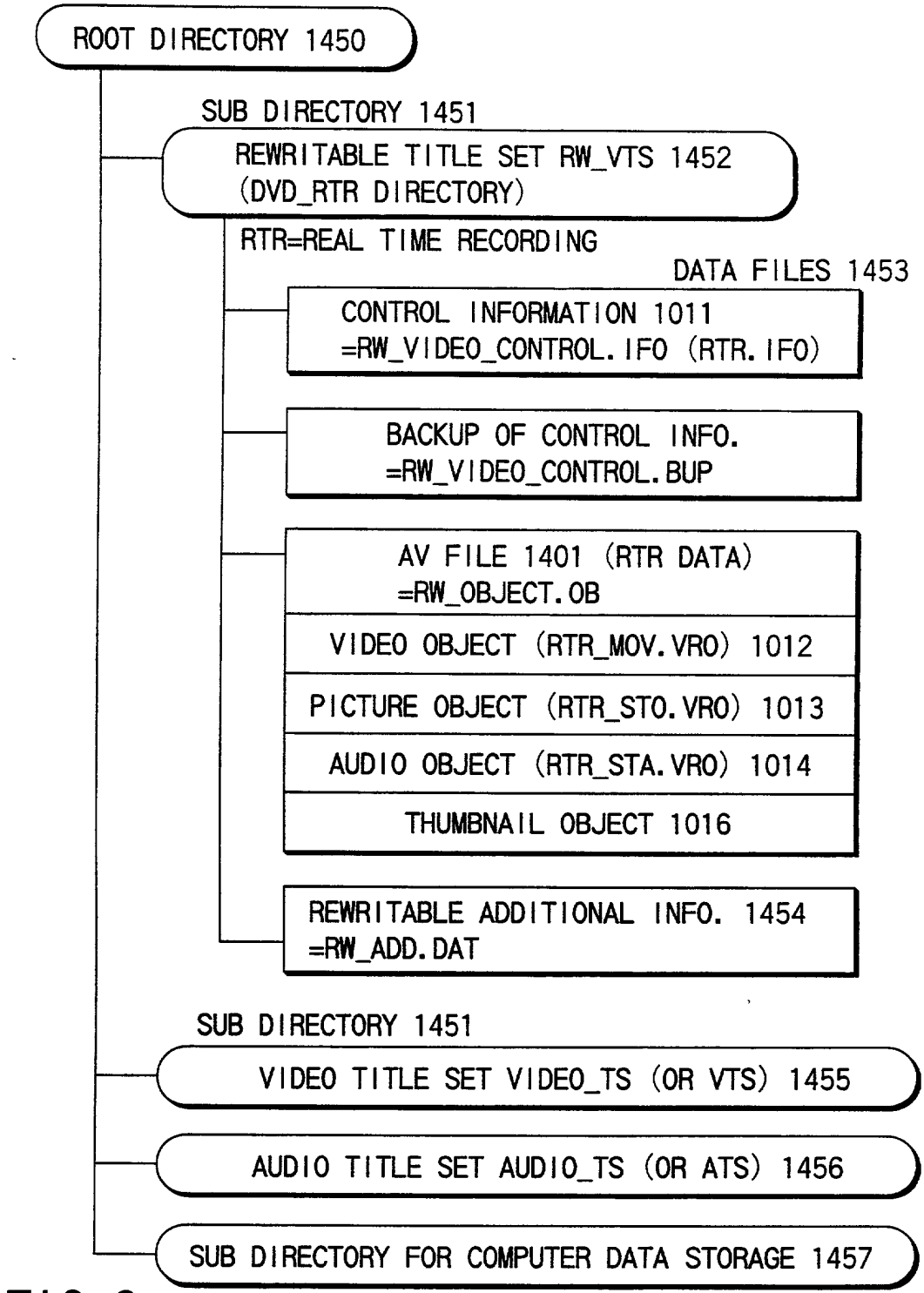
ROOT DIRECTORY 1450
SUB DIRECTORY 1451
REWRITABLE TITLE SET RW_VTS 1452
(DVD_RTR DIRECTORY)
RTR=REAL TIME RECORDING
DATA FILES 1453
CONTROL INFORMATION 1011
=RW_VIDEO_CONTROL.IFO (RTR.IFO)
BACKUP OF CONTROL INFO.
=RW_VIDEO_CONTROL.BUP
AV FILE 1401 (RTR DATA)
=RW_OBJECT.OB
VIDEO OBJECT (RTR_MOV.VRO) 1012
PICTURE OBJECT (RTR_STO.VRO) 1013
AUDIO OBJECT (RTR_STA.VRO) 1014
THUMBNAIL OBJECT 1016
REWRITABLE ADDITIONAL INFO. 1454
=RW_ADD.DAT
SUB DIRECTORY 1451
VIDEO TITLE SET VIDEO_TS (OR VTS) 1455
AUDIO TITLE SET AUDIO_TS (OR ATS) 1456
SUB DIRECTORY FOR COMPUTER DATA STORAGE 1457

FIG. 2

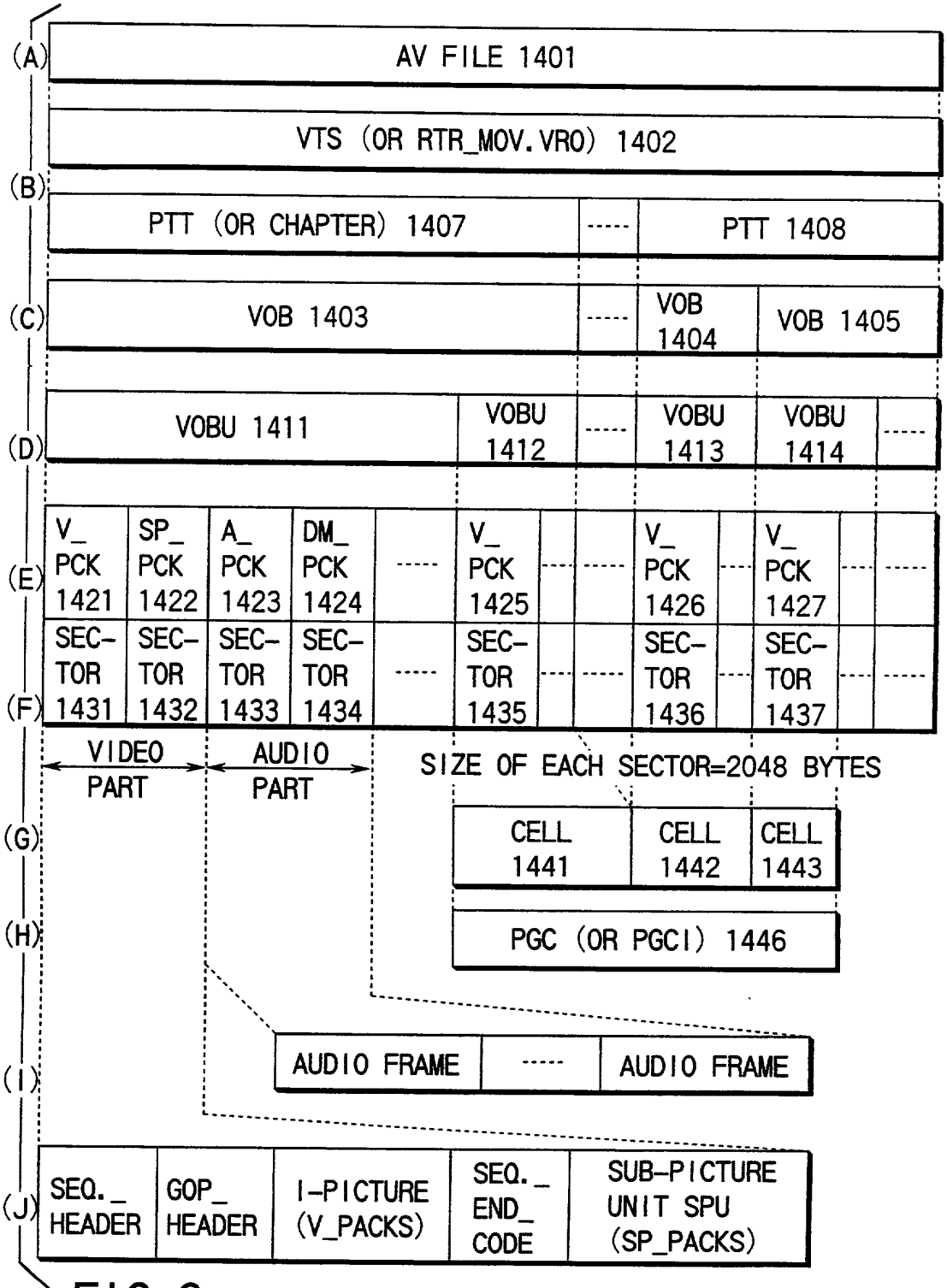
(A)
AV FILE 1401
VTS (OR RTR_MOV.VRO) 1402
(B)
PTT (OR CHAPTER) 1407
PTT 1408
(C)
VOB 1403
VOB 1404
VOB 1405
(D)
VOBU 1411
VOBU 1412
VOBU 1413
VOBU 1414
(E)
V_PCK 1421
SP_PCK 1422
A_PCK 1423
DM_PCK 1424
V_PCK 1425
V_PCK 1426
V_PCK 1427
(F)
SECTOR 1431
SECTOR 1432
SECTOR 1433
SECTOR 1434
SECTOR 1435
SECTOR 1436
SECTOR 1437
VIDEO PART
AUDIO PART
SIZE OF EACH SECTOR=2048 BYTES
(G)
CELL 1441
CELL 1442
CELL 1443
(H)
PGC (OR PGCI) 1446
(I)
AUDIO FRAME
AUDIO FRAME
(J)
SEQ._HEADER
GOP_HEADER
I-PICTURE (V_PACKS)
SEQ._END_CODE
SUB-PICTURE UNIT SPU (SP_PACKS)

FIG. 3

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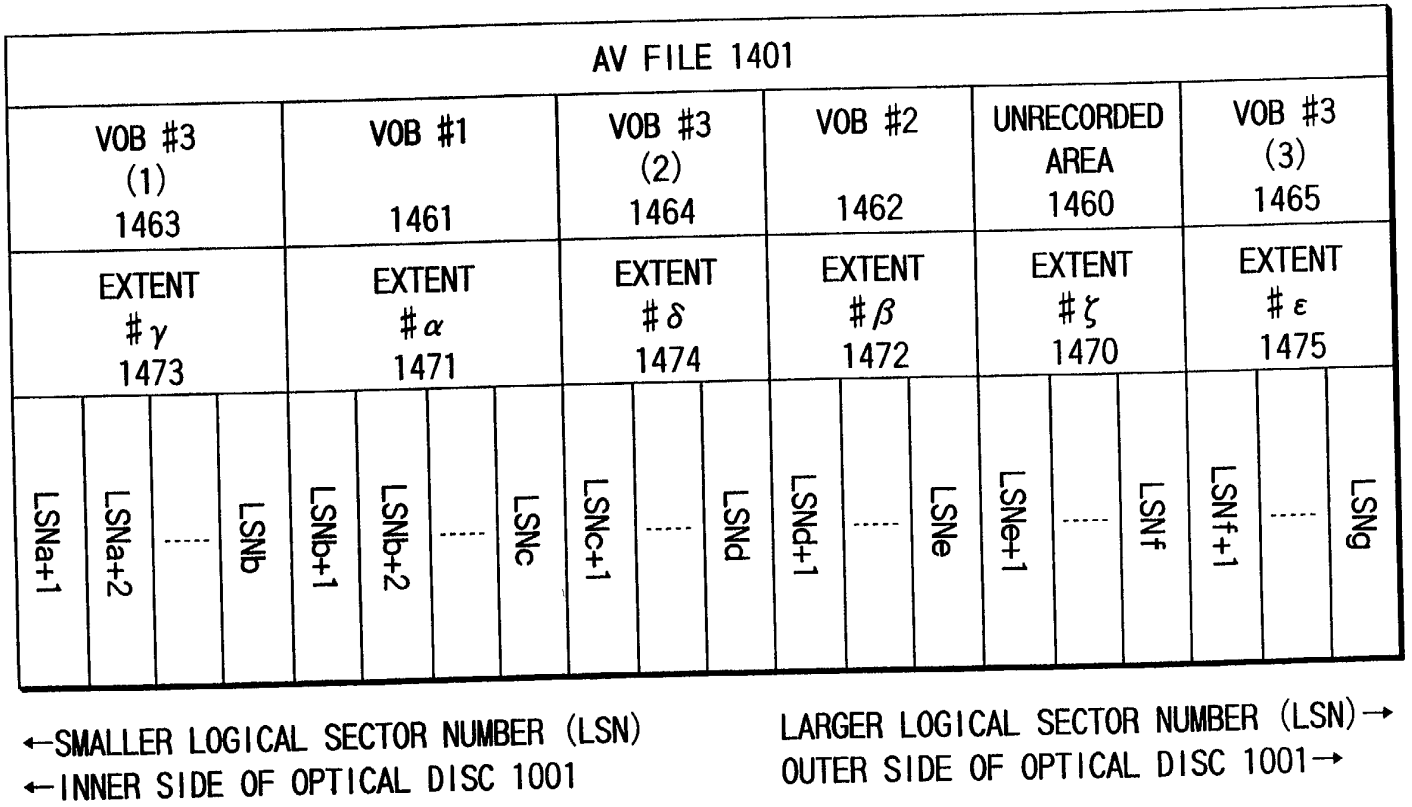

FIG. 4

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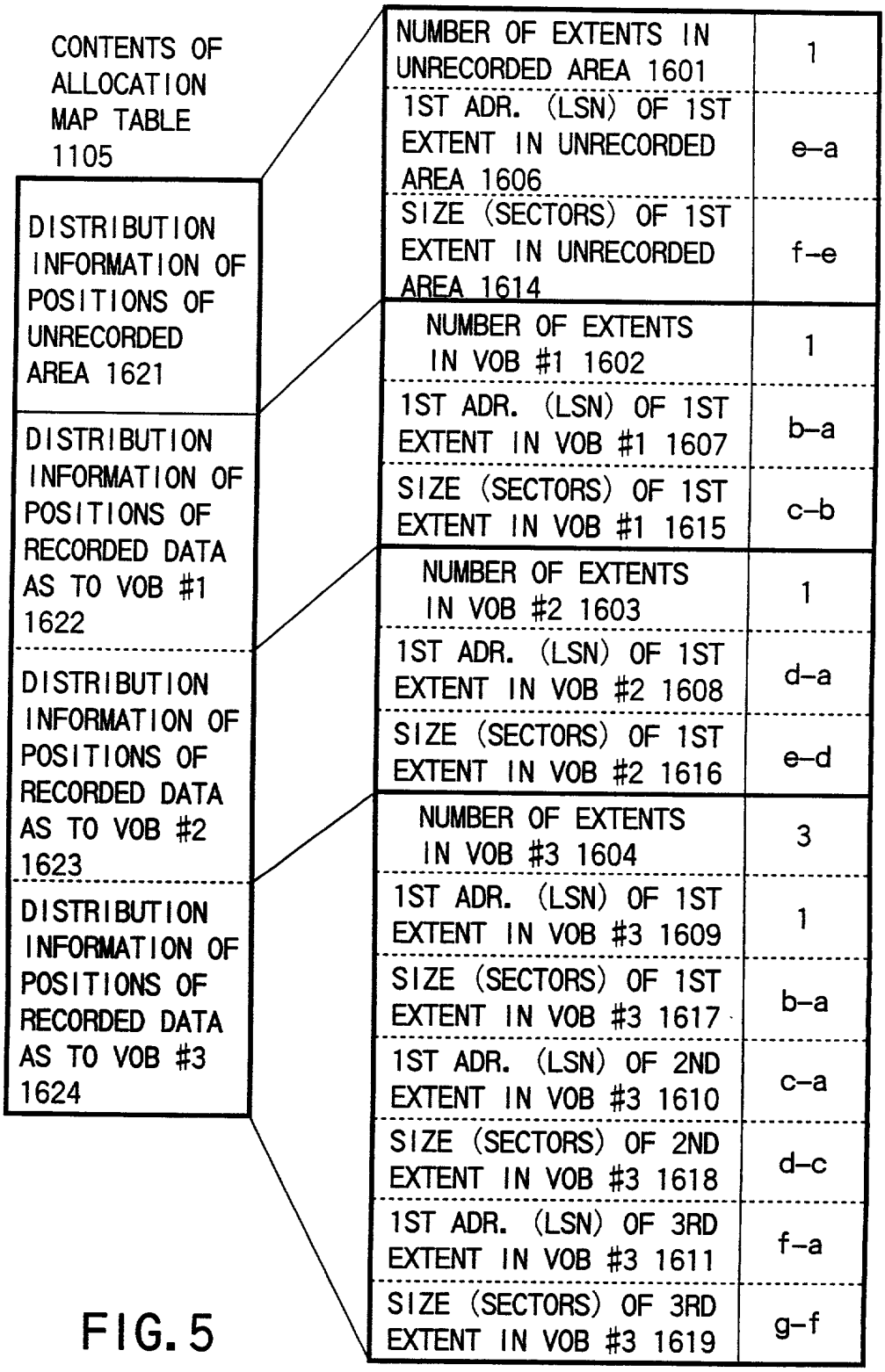
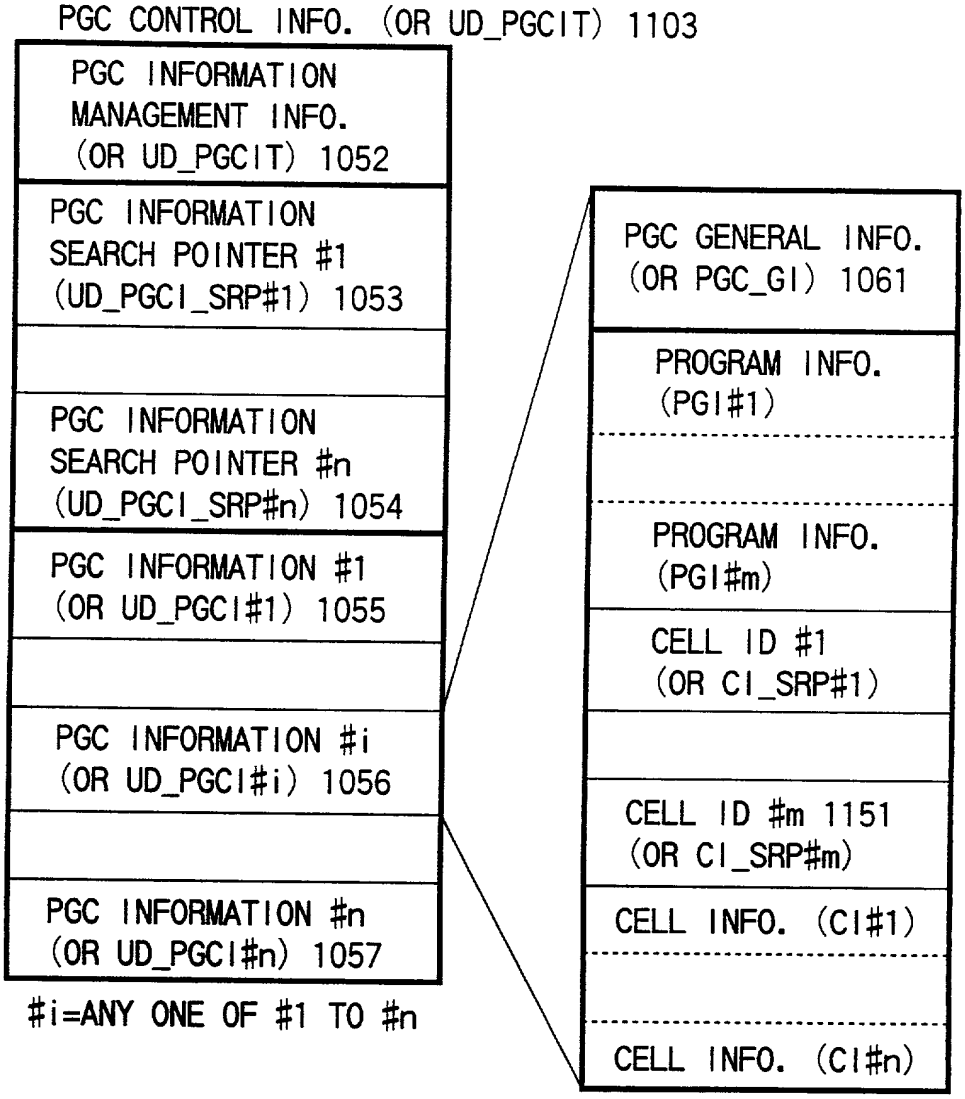

CONTENTS OF ALLOCATION MAP TABLE 1105
DISTRIBUTION INFORMATION OF POSITIONS OF UNRECORDED AREA 1621
DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #1 1622
DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #2 1623
DISTRIBUTION INFORMATION OF POSITIONS OF RECORDED DATA AS TO VOB #3 1624
NUMBER OF EXTENTS IN UNRECORDED AREA 1601
1
1ST ADR. (LSN) OF 1ST EXTENT IN UNRECORDED AREA 1606
e–a
SIZE (SECTORS) OF 1ST EXTENT IN UNRECORDED AREA 1614
f–e
NUMBER OF EXTENTS IN VOB #1 1602
1
1ST ADR. (LSN) OF 1ST EXTENT IN VOB #1 1607
b–a
SIZE (SECTORS) OF 1ST EXTENT IN VOB #1 1615
c–b
NUMBER OF EXTENTS IN VOB #2 1603
1
1ST ADR. (LSN) OF 1ST EXTENT IN VOB #2 1608
d–a
SIZE (SECTORS) OF 1ST EXTENT IN VOB #2 1616
e–d
NUMBER OF EXTENTS IN VOB #3 1604
3
1ST ADR. (LSN) OF 1ST EXTENT IN VOB #3 1609
1
SIZE (SECTORS) OF 1ST EXTENT IN VOB #3 1617
b–a
1ST ADR. (LSN) OF 2ND EXTENT IN VOB #3 1610
c–a
SIZE (SECTORS) OF 2ND EXTENT IN VOB #3 1618
d–c
1ST ADR. (LSN) OF 3RD EXTENT IN VOB #3 1611
f–a
SIZE (SECTORS) OF 3RD EXTENT IN VOB #3 1619
g–f

FIG. 5



*1> PGC INFORMATION (OR UD_PGCI) CAN DEFINE A GROUP OF ONE OR MORE PROGRAMS;
*2> EACH PROGRAM CAN BE FORMED OF ONE OR MORE CELLS;
*3> EACH CELL CAN BE SPECIFIED BY CELL ID (OR CI_SRP);
*4> EACH CELL ID (OR CI_SRP) CAN INDICATE POSITION (OR START ADDRESS) OF CELL INFORMATION (OR CI);
*5> EACH CELL INFORMATION (OR CI) CAN DETERMINE START TIME AND END TIME OF PRESENTATION OF CELL

FIG. 6

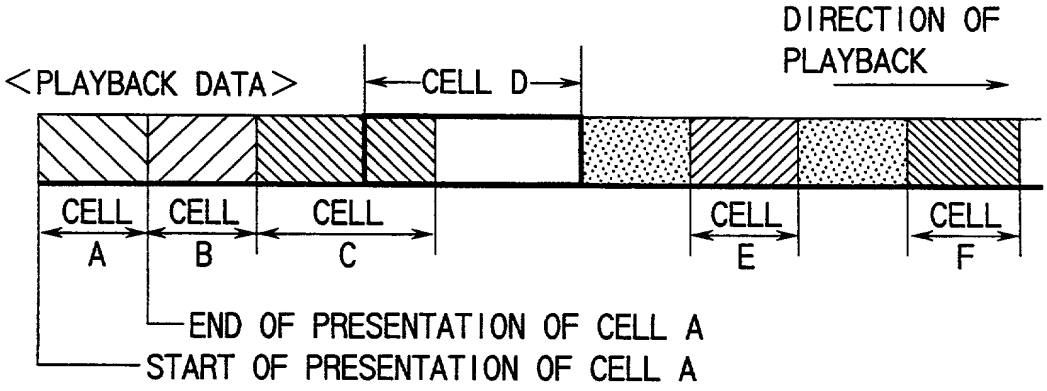


FIG. 7A

PGC INFORMATION (PGCI)

PGC#1 1081		PGC#2 1082		PGC#3 1083	
NUMBER OF CELLS=3		NUMBER OF CELLS=3		NUMBER OF CELLS=5	
#1	CELL A	#1	CELL D	#1	CELL E
#2	CELL B	#2	CELL E	#2	CELL A
#3	CELL C	#3	CELL F	#3	CELL D
——	——	——	——	#4	CELL B
——	——	——	——	#5	CELL E
CELL ID	CELL INFO.	CELL ID	CELL INFO.	CELL ID	CELL INFO.
CI_SRP #m=3	CI #n=3	CI_SRP #m=3	CI #n=3	CI_SRP #m = 5	CI #n=4

FIG. 7B

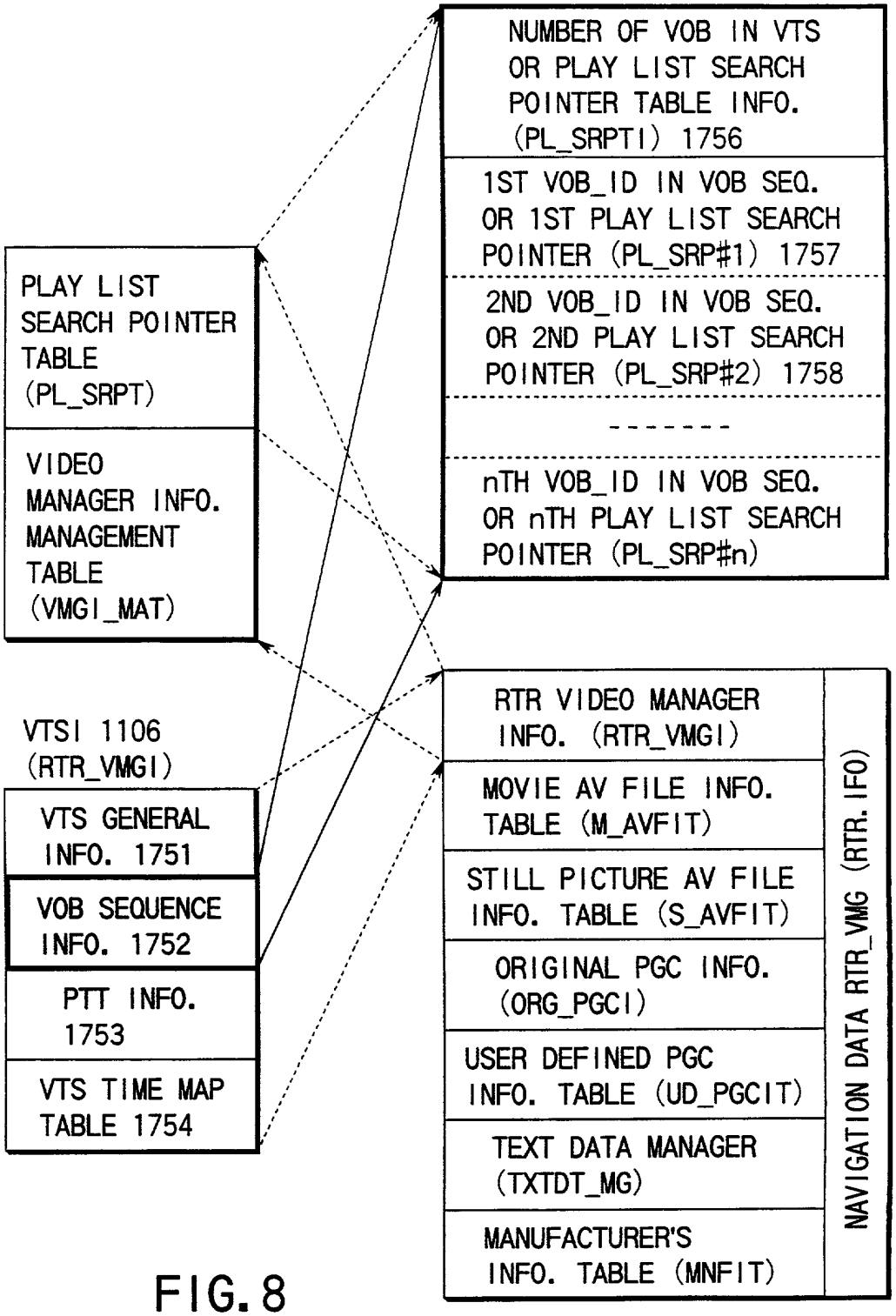

NUMBER OF VOB IN VTS OR PLAY LIST SEARCH POINTER TABLE INFO. (PL_SRPTI) 1756
1ST VOB_ID IN VOB SEQ. OR 1ST PLAY LIST SEARCH POINTER (PL_SRP#1) 1757
2ND VOB_ID IN VOB SEQ. OR 2ND PLAY LIST SEARCH POINTER (PL_SRP#2) 1758
nTH VOB_ID IN VOB SEQ. OR nTH PLAY LIST SEARCH POINTER (PL_SRP#n)
PLAY LIST SEARCH POINTER TABLE (PL_SRPT)
VIDEO MANAGER INFO. MANAGEMENT TABLE (VMGI_MAT)
VTSI 1106 (RTR_VMGI)
VTS GENERAL INFO. 1751
VOB SEQUENCE INFO. 1752
PTT INFO. 1753
VTS TIME MAP TABLE 1754
RTR VIDEO MANAGER INFO. (RTR_VMGI)
MOVIE AV FILE INFO. TABLE (M_AVFIT)
STILL PICTURE AV FILE INFO. TABLE (S_AVFIT)
ORIGINAL PGC INFO. (ORG_PGCI)
USER DEFINED PGC INFO. TABLE (UD_PGCIT)
TEXT DATA MANAGER (TXTDT_MG)
MANUFACTURER'S INFO. TABLE (MNFIT)
NAVIGATION DATA RTR_VMG (RTR. IFO)

FIG. 8

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FIG. 9A

FIG. 9B

FIG. 9C

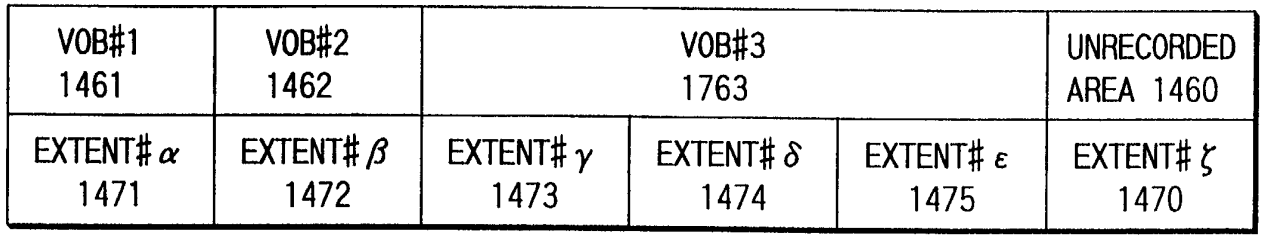

FIG. 9D

FIG. 9E

FIG. 9F

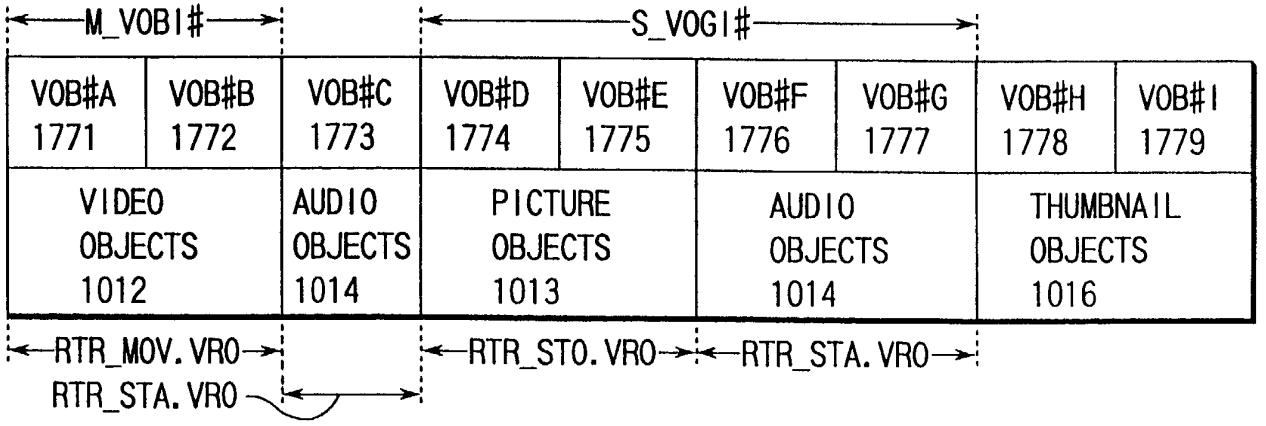

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FIG. 10A

FIG. 10B

FIG. 10C

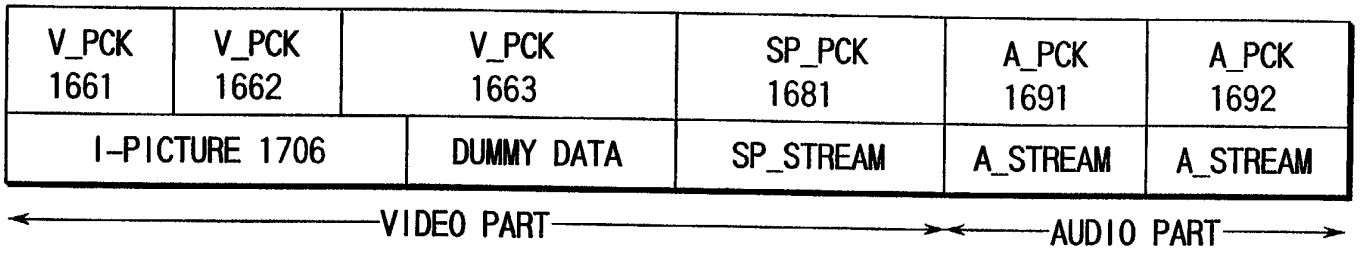

FIG. 10D

FIG. 10E

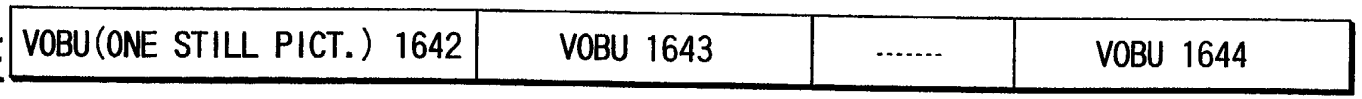

FIG. 10F

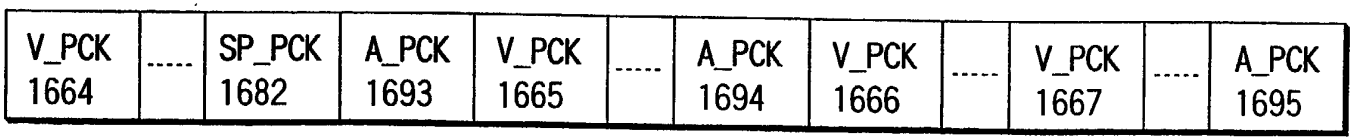

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FIG. 10G

FIG. 10H

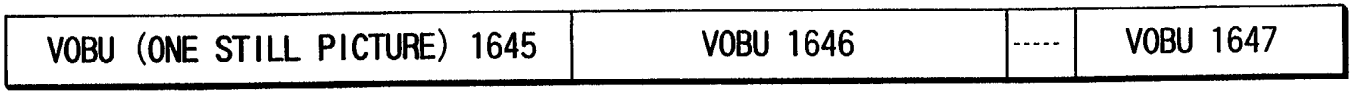


FIG. 10I

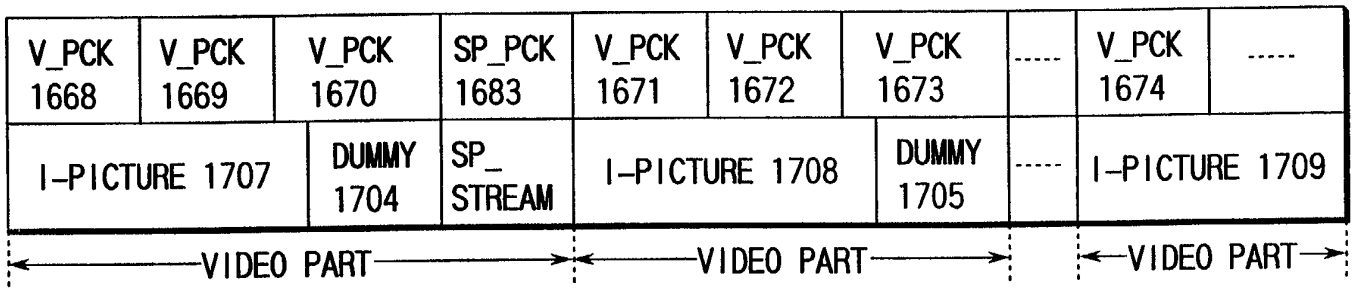


FIG. 10J

FIG. 10K

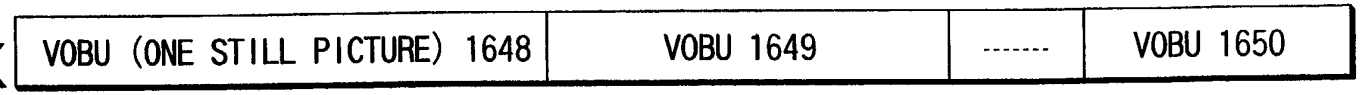
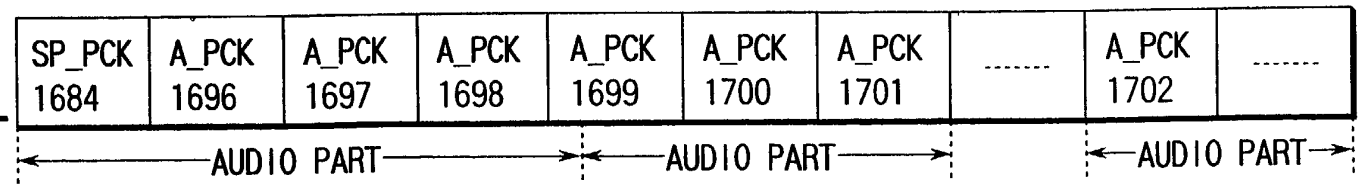


FIG. 10L



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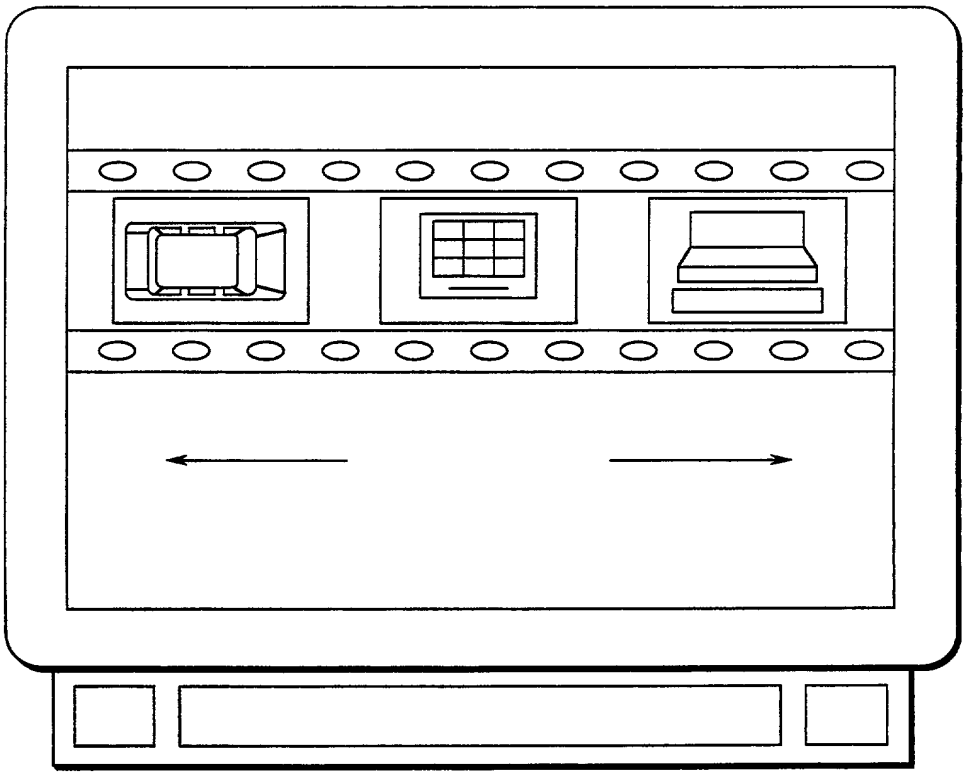

FIG. 11

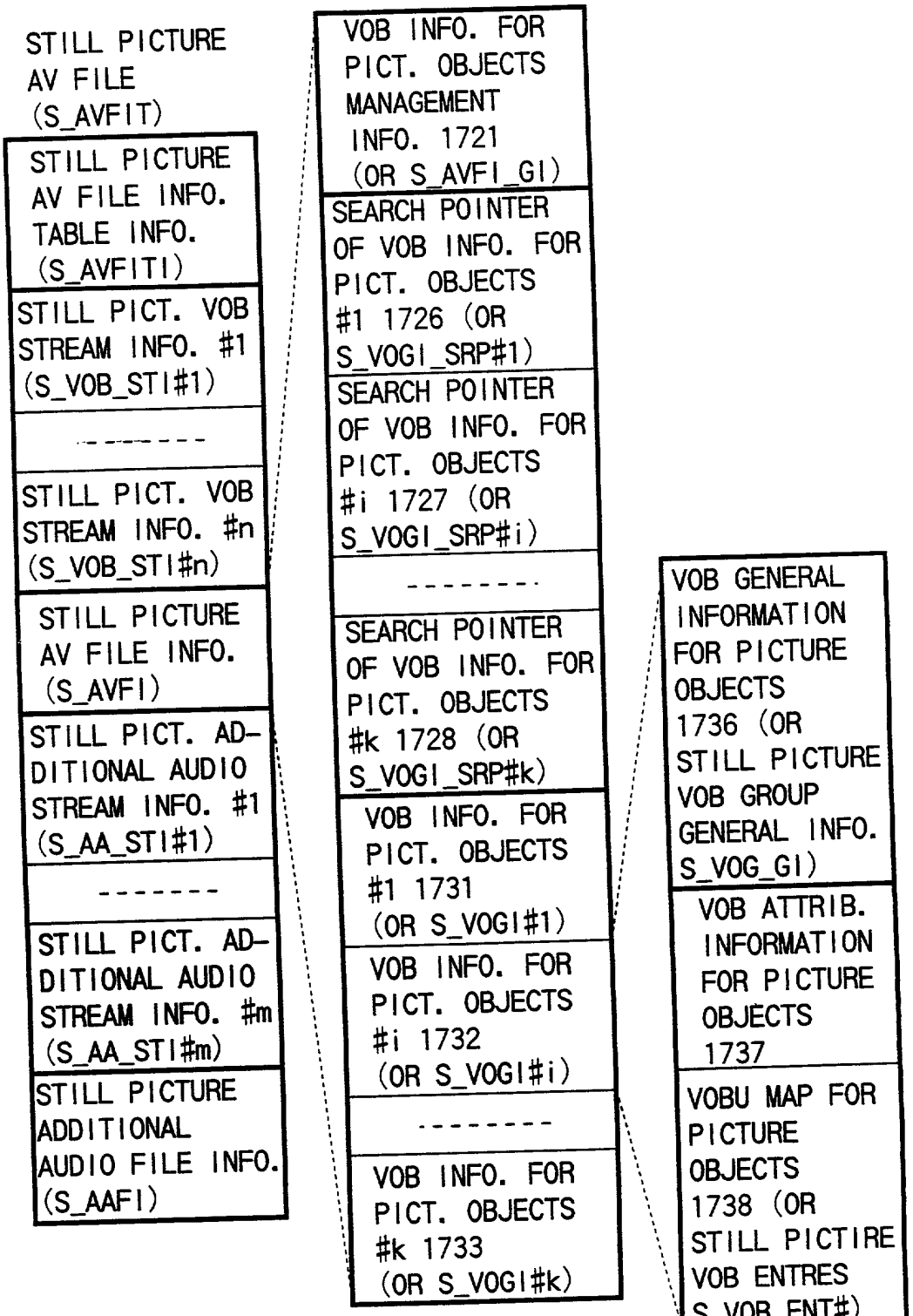

FIG. 12 #i=ANY ONE OF #1 TO #k

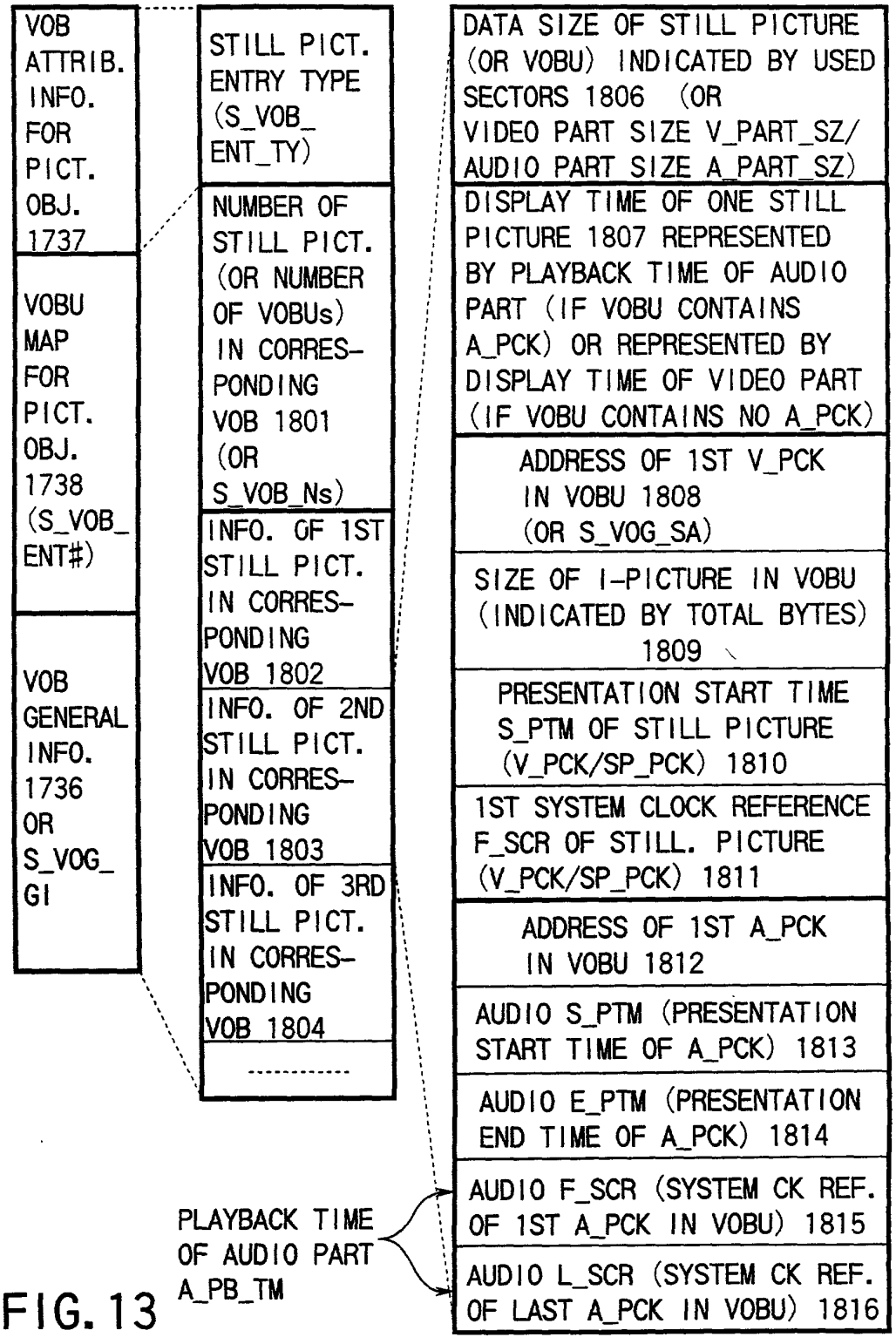
VOB ATTRIB. INFO. FOR PICT. OBJ. 1737
VOBU MAP FOR PICT. OBJ. 1738 (S_VOB_ ENT#)
VOB GENERAL INFO. 1736 OR S_VOG_ GI
STILL PICT. ENTRY TYPE (S_VOB_ ENT_TY)
NUMBER OF STILL PICT. (OR NUMBER OF VOBUs) IN CORRES-PONDING VOB 1801 (OR S_VOB_Ns)
INFO. OF 1ST STILL PICT. IN CORRES-PONDING VOB 1802
INFO. OF 2ND STILL PICT. IN CORRES-PONDING VOB 1803
INFO. OF 3RD STILL PICT. IN CORRES-PONDING VOB 1804
.....
DATA SIZE OF STILL PICTURE (OR VOBU) INDICATED BY USED SECTORS 1806 (OR VIDEO PART SIZE V_PART_SZ/ AUDIO PART SIZE A_PART_SZ)
DISPLAY TIME OF ONE STILL PICTURE 1807 REPRESENTED BY PLAYBACK TIME OF AUDIO PART (IF VOBU CONTAINS A_PCK) OR REPRESENTED BY DISPLAY TIME OF VIDEO PART (IF VOBU CONTAINS NO A_PCK)
ADDRESS OF 1ST V_PCK IN VOBU 1808 (OR S_VOG_SA)
SIZE OF I-PICTURE IN VOBU (INDICATED BY TOTAL BYTES) 1809
PRESENTATION START TIME S_PTM OF STILL PICTURE (V_PCK/SP_PCK) 1810
1ST SYSTEM CLOCK REFERENCE F_SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1811
ADDRESS OF 1ST A_PCK IN VOBU 1812
AUDIO S_PTM (PRESENTATION START TIME OF A_PCK) 1813
AUDIO E_PTM (PRESENTATION END TIME OF A_PCK) 1814
AUDIO F_SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOBU) 1815
AUDIO L_SCR (SYSTEM CK REF. OF LAST A_PCK IN VOBU) 1816
PLAYBACK TIME OF AUDIO PART A_PB_TM

FIG. 13

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FIG. 14A

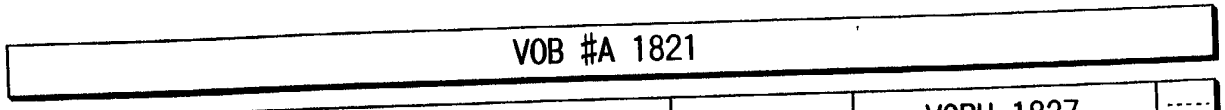


FIG. 14B

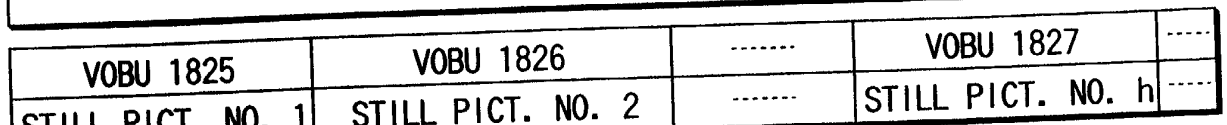


FIG. 14C

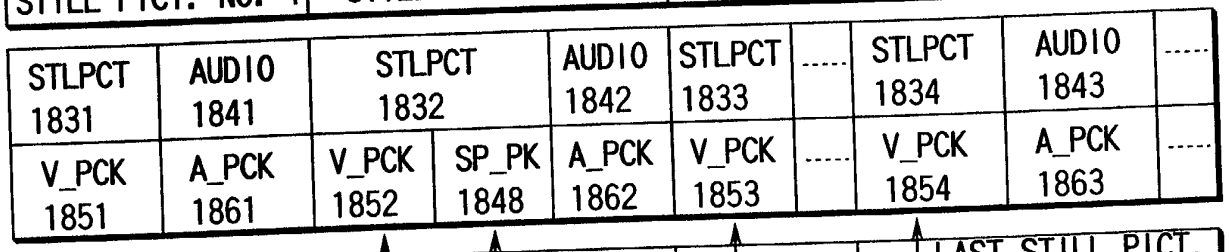


FIG. 14D

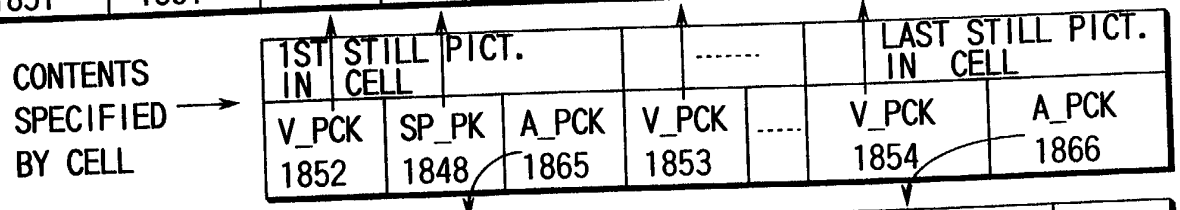


FIG. 14E

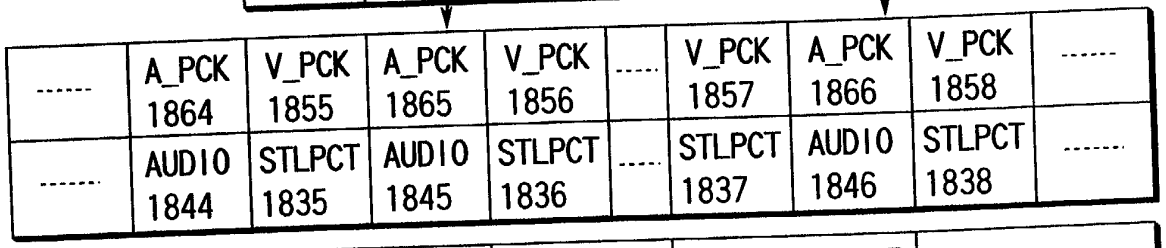


FIG. 14F

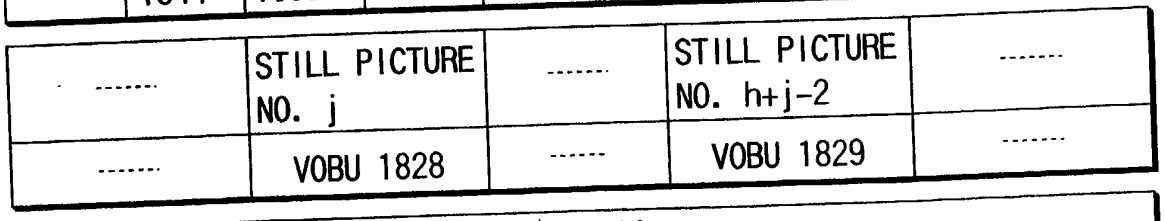
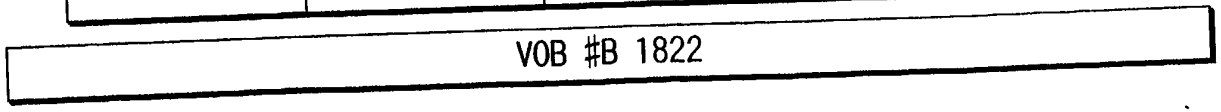


FIG. 14G



CONTENTS (S_CI) OF CELL PLAYBACK INFO. (CI) FOR PICTURE OBJECTS 1870	EXAMPLE 1871 WITH RESPECT TO FIG. 14	EXAMPLE 1872 WITH RESPECT TO FIG. 14
CELL ID (CI_SRP) 1873	———	———
TYPE INFORMATION OF CELL (C_TY) 1880	———	———
ID INFORMATION OF VOB WITH V_PCK 1874	VOB #A	1821
STILL PICT. NUMBER 1875 IN VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL (S_S_VOB_ENTN)	2	1826
STILL PICT. NUMBER 1876 IN VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL (E_S_VOB_ENTN)	h	1827
ID INFORMATION OF VOB WITH A_PCK 1877	VOB #B	1822
STILL PICT. NUMBER 1878 IN VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL	j	1828
PRESENTATION TIME 1879 OF EACH STILL PICTURE HAVING NO CORRESPONDING A_PCK	2 SECONDS (ONE LINE)	———

FIG. 15

CONTENTS OF CELL PLAYBACK INFO. (CI) FOR PTT
CELL ID (CI_SRP) 1883
TYPE INFO. OF CELL (C_TY) 1882
ID INFO. OF PTT WITH V_PCK 1884
STILL PICTURE NUMBER 1885 IN PTT OF VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL
STILL PICTURE NUMBER 1886 IN PTT OF VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL
ID INFO. OF PTT WITH A_PCK 1887
STILL PICTURE NUMBER 1888 IN PTT OF VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL
PRESENTATION TIME 1889 OF EACH STILL PICT. HAVING NO CORRESPONDING A_PCK

FIG. 16

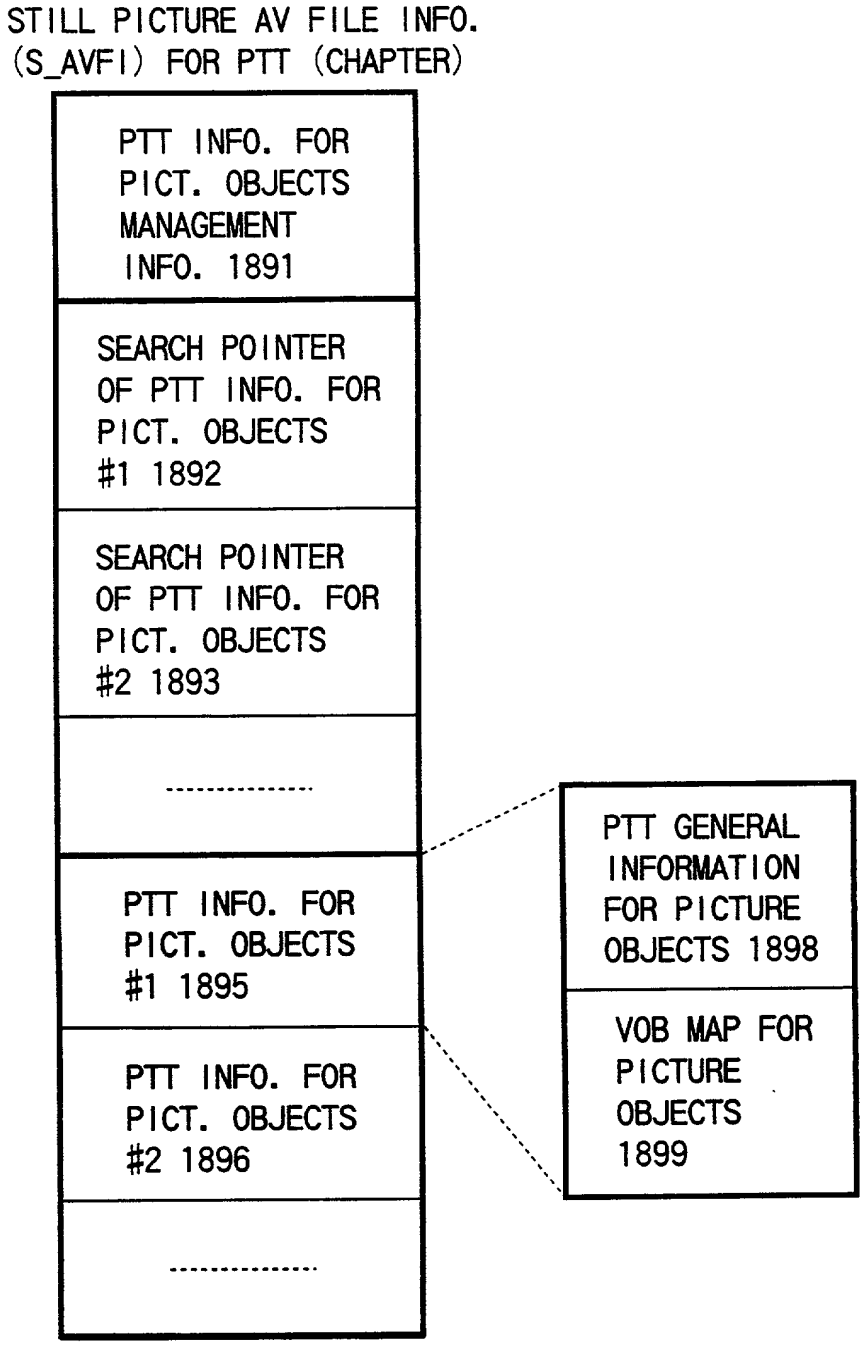

STILL PICTURE AV FILE INFO. (S_AVFI) FOR PTT (CHAPTER)
PTT INFO. FOR PICT. OBJECTS MANAGEMENT INFO. 1891
SEARCH POINTER OF PTT INFO. FOR PICT. OBJECTS #1 1892
SEARCH POINTER OF PTT INFO. FOR PICT. OBJECTS #2 1893
.....
PTT INFO. FOR PICT. OBJECTS #1 1895
PTT INFO. FOR PICT. OBJECTS #2 1896
.....
PTT GENERAL INFORMATION FOR PICTURE OBJECTS 1898
VOB MAP FOR PICTURE OBJECTS 1899

FIG. 17

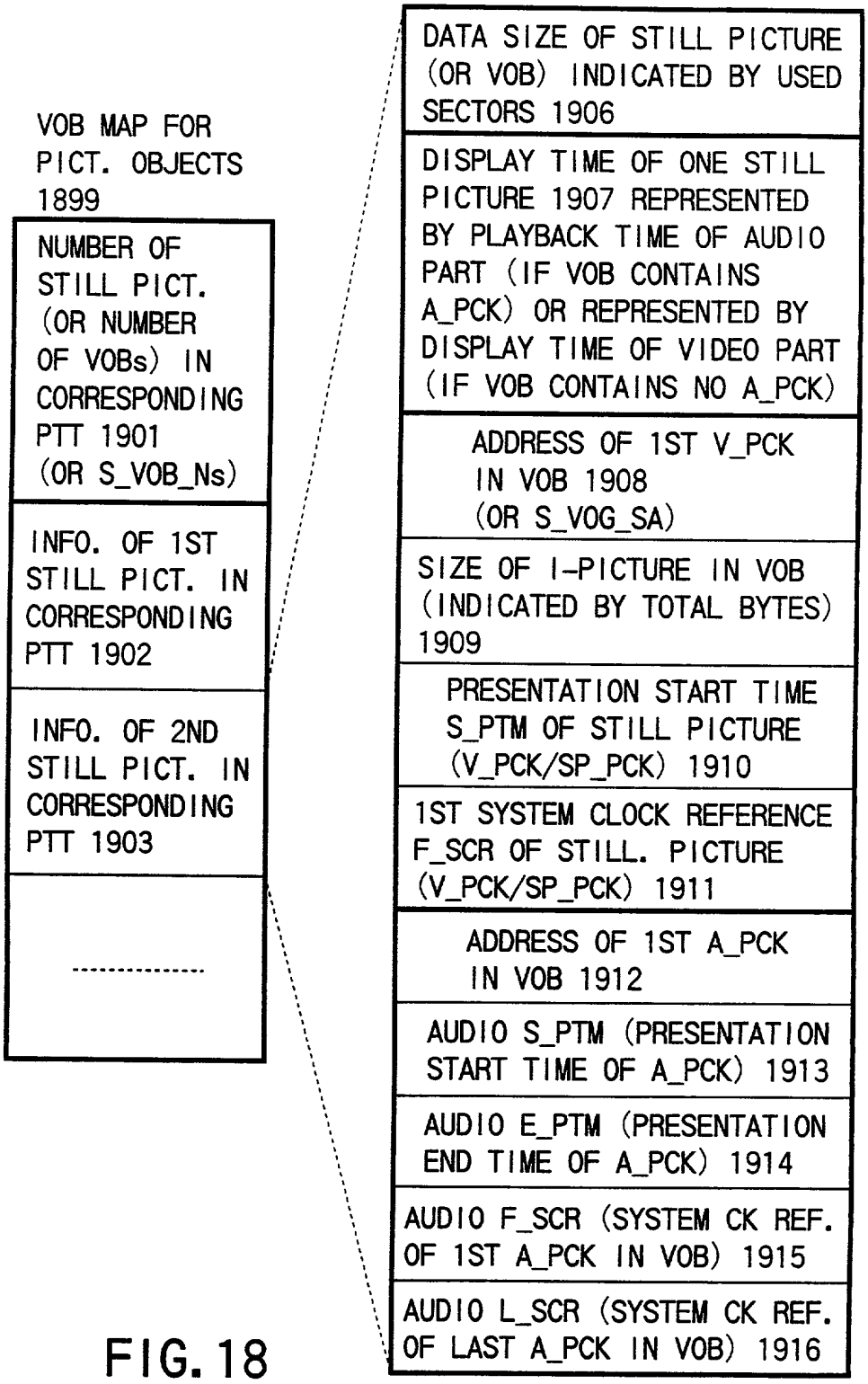

VOB MAP FOR PICT. OBJECTS 1899
NUMBER OF STILL PICT. (OR NUMBER OF VOBs) IN CORRESPONDING PTT 1901 (OR S_VOB_Ns)
INFO. OF 1ST STILL PICT. IN CORRESPONDING PTT 1902
INFO. OF 2ND STILL PICT. IN CORRESPONDING PTT 1903
DATA SIZE OF STILL PICTURE (OR VOB) INDICATED BY USED SECTORS 1906
DISPLAY TIME OF ONE STILL PICTURE 1907 REPRESENTED BY PLAYBACK TIME OF AUDIO PART (IF VOB CONTAINS A_PCK) OR REPRESENTED BY DISPLAY TIME OF VIDEO PART (IF VOB CONTAINS NO A_PCK)
ADDRESS OF 1ST V_PCK IN VOB 1908 (OR S_VOG_SA)
SIZE OF I-PICTURE IN VOB (INDICATED BY TOTAL BYTES) 1909
PRESENTATION START TIME S_PTM OF STILL PICTURE (V_PCK/SP_PCK) 1910
1ST SYSTEM CLOCK REFERENCE F_SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1911
ADDRESS OF 1ST A_PCK IN VOB 1912
AUDIO S_PTM (PRESENTATION START TIME OF A_PCK) 1913
AUDIO E_PTM (PRESENTATION END TIME OF A_PCK) 1914
AUDIO F_SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOB) 1915
AUDIO L_SCR (SYSTEM CK REF. OF LAST A_PCK IN VOB) 1916

FIG. 18

20612D "1629.20DF

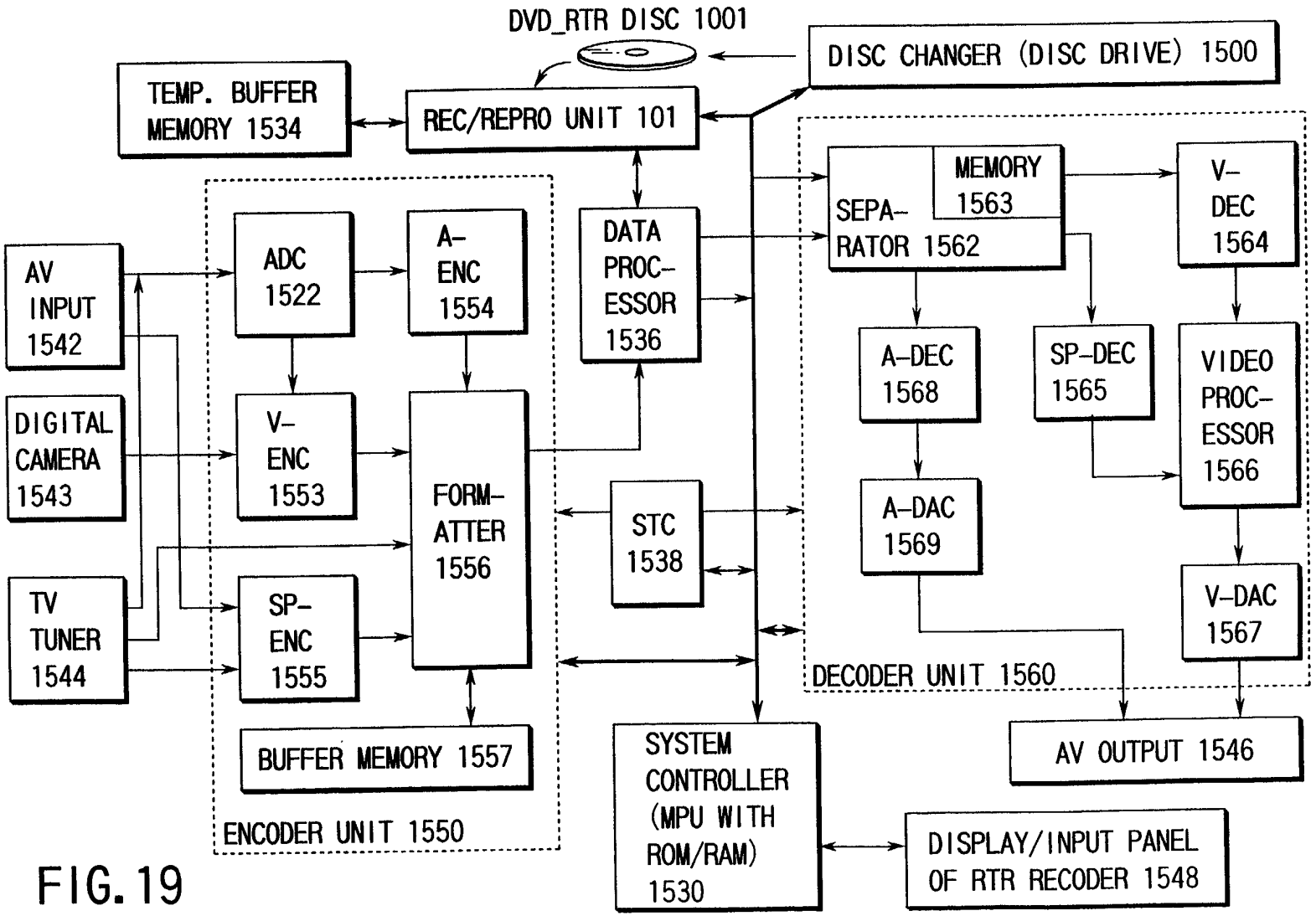


FIG. 19

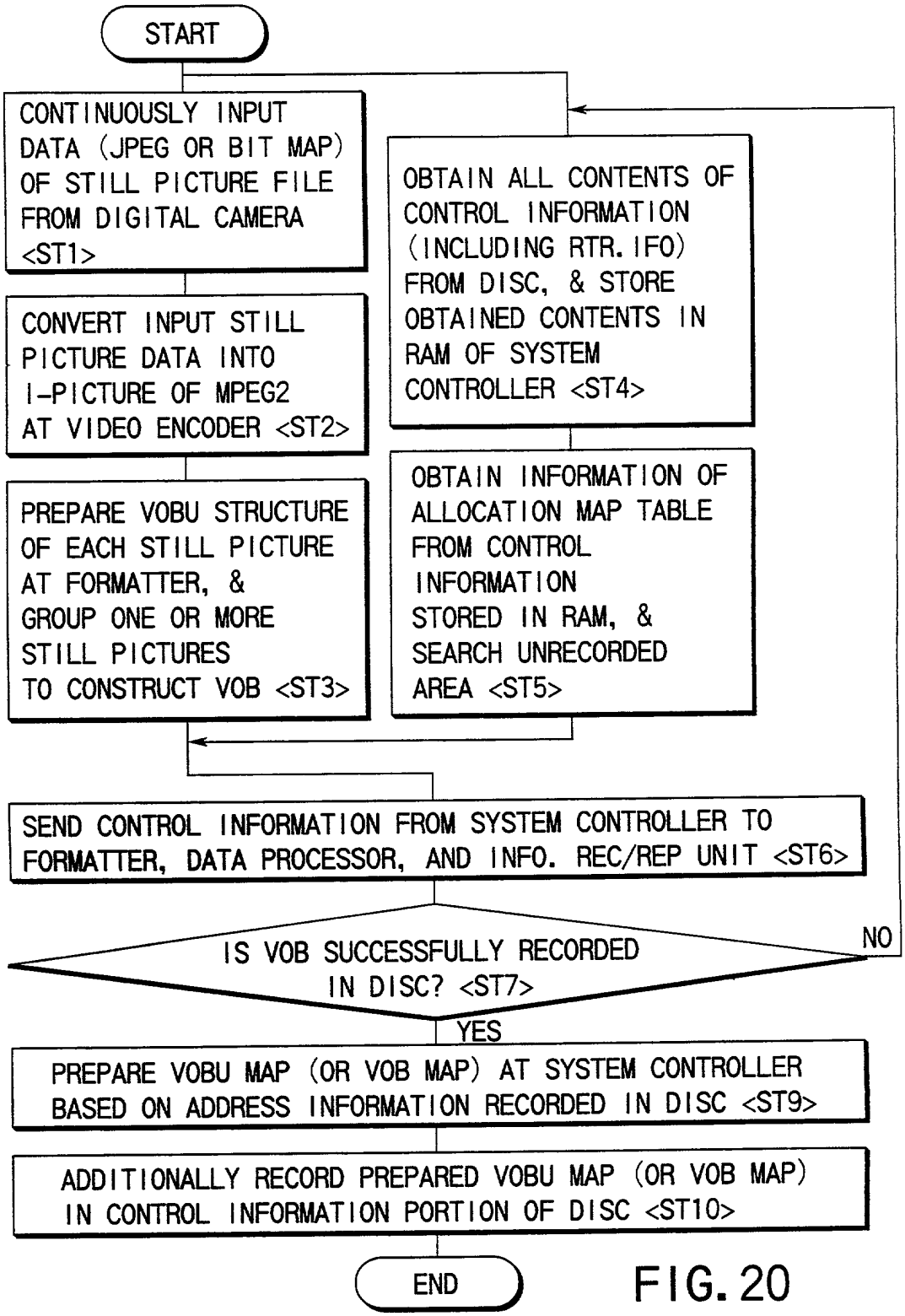

START
CONTINUOUSLY INPUT DATA (JPEG OR BIT MAP) OF STILL PICTURE FILE FROM DIGITAL CAMERA <ST1>
CONVERT INPUT STILL PICTURE DATA INTO I-PICTURE OF MPEG2 AT VIDEO ENCODER <ST2>
PREPARE VOBU STRUCTURE OF EACH STILL PICTURE AT FORMATTER, & GROUP ONE OR MORE STILL PICTURES TO CONSTRUCT VOB <ST3>
OBTAIN ALL CONTENTS OF CONTROL INFORMATION (INCLUDING RTR. IFO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST4>
OBTAIN INFORMATION OF ALLOCATION MAP TABLE FROM CONTROL INFORMATION STORED IN RAM, & SEARCH UNRECORDED AREA <ST5>
SEND CONTROL INFORMATION FROM SYSTEM CONTROLLER TO FORMATTER, DATA PROCESSOR, AND INFO. REC/REP UNIT <ST6>
IS VOB SUCCESSFULLY RECORDED IN DISC? <ST7>
NO
YES
PREPARE VOBU MAP (OR VOB MAP) AT SYSTEM CONTROLLER BASED ON ADDRESS INFORMATION RECORDED IN DISC <ST9>
ADDITIONALLY RECORD PREPARED VOBU MAP (OR VOB MAP) IN CONTROL INFORMATION PORTION OF DISC <ST10>
END

FIG. 20

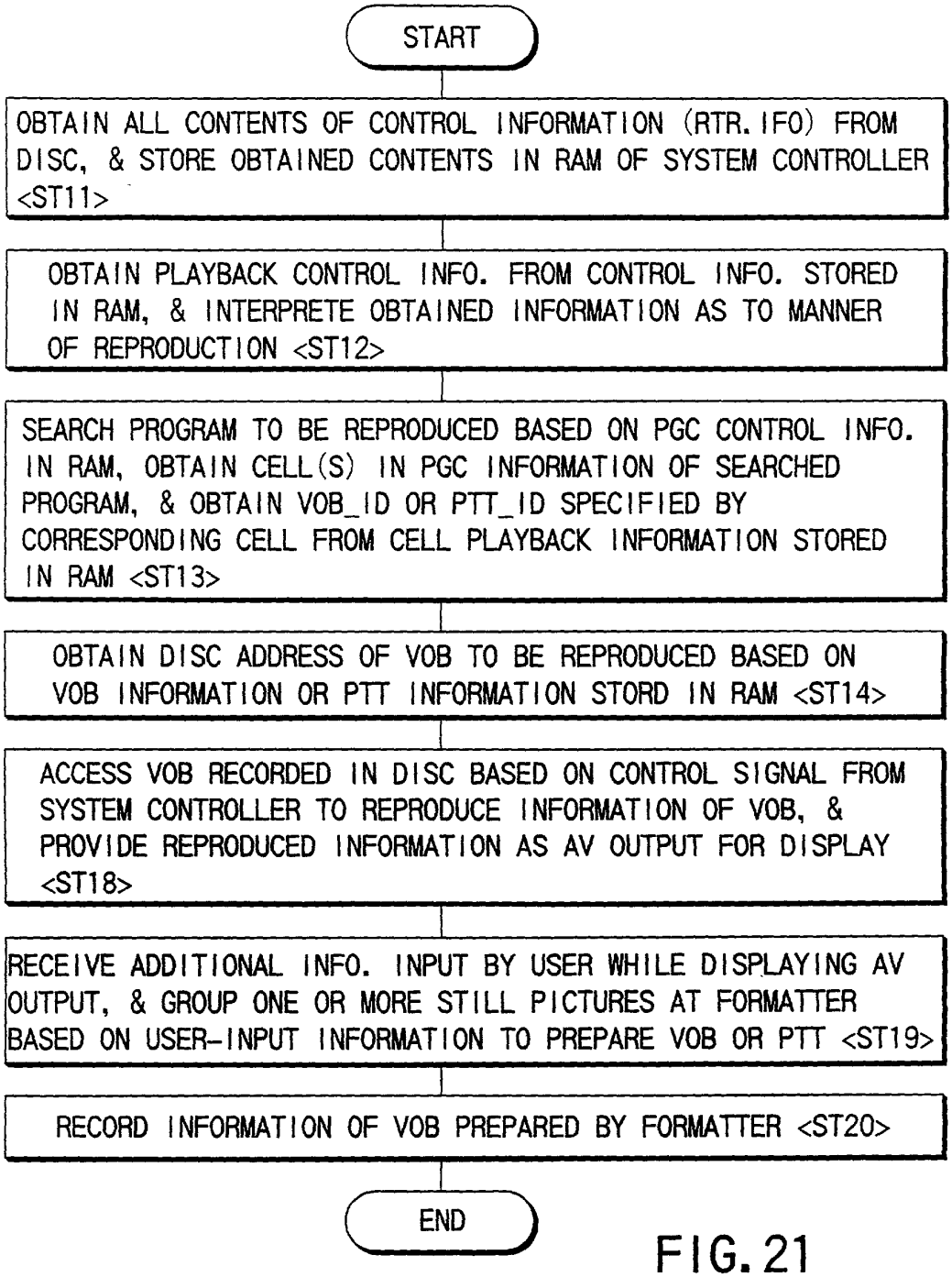

START
OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR.IFO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>
OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>
SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>
OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <ST14>
ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB, & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>
RECEIVE ADDITIONAL INFO. INPUT BY USER WHILE DISPLAYING AV OUTPUT, & GROUP ONE OR MORE STILL PICTURES AT FORMATTER BASED ON USER-INPUT INFORMATION TO PREPARE VOB OR PTT <ST19>
RECORD INFORMATION OF VOB PREPARED BY FORMATTER <ST20>
END

FIG. 21

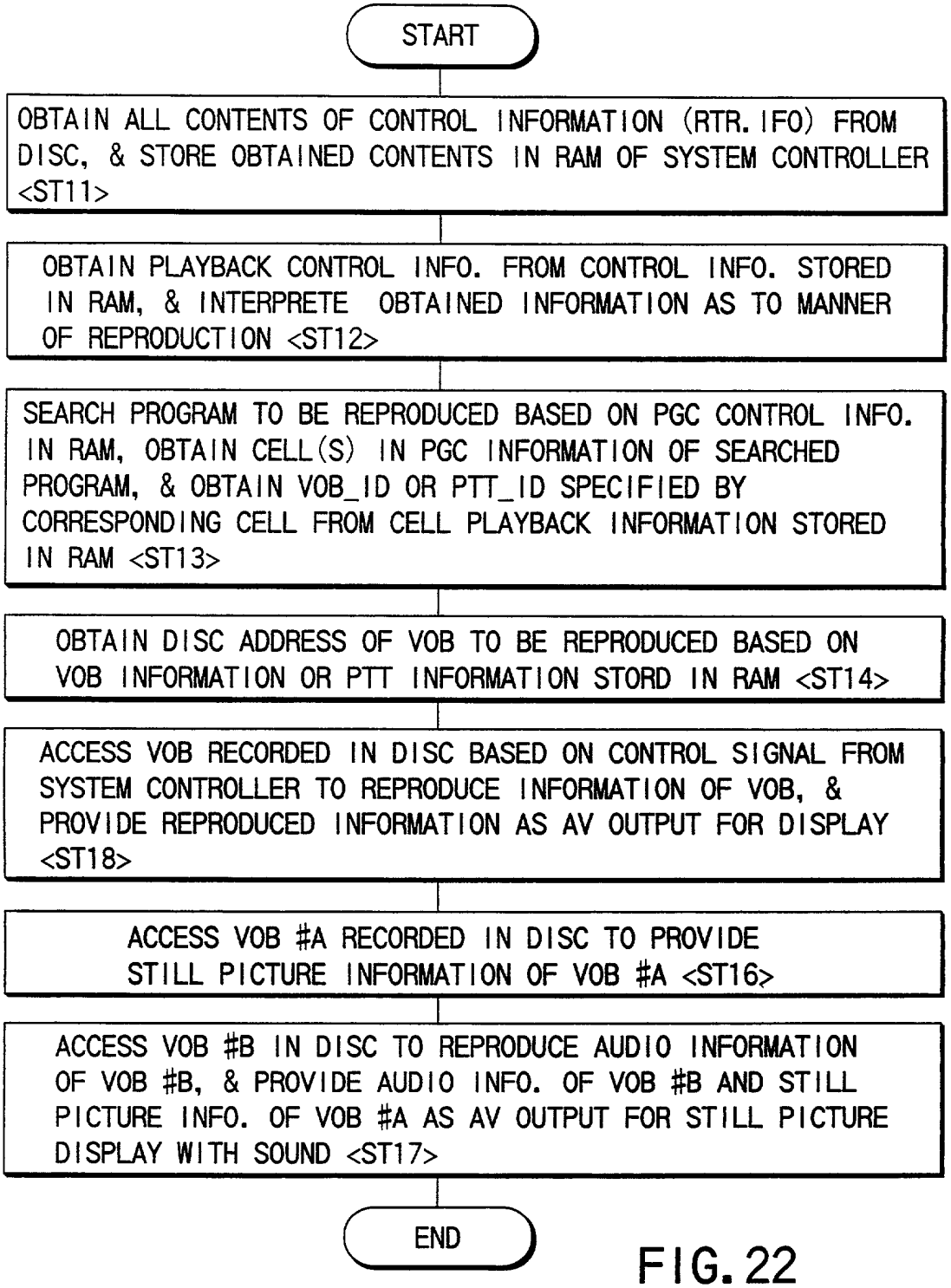

START
OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR.IFO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>
OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>
SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>
OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <ST14>
ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB, & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>
ACCESS VOB #A RECORDED IN DISC TO PROVIDE STILL PICTURE INFORMATION OF VOB #A <ST16>
ACCESS VOB #B IN DISC TO REPRODUCE AUDIO INFORMATION OF VOB #B, & PROVIDE AUDIO INFO. OF VOB #B AND STILL PICTURE INFO. OF VOB #A AS AV OUTPUT FOR STILL PICTURE DISPLAY WITH SOUND <ST17>
END

FIG. 22

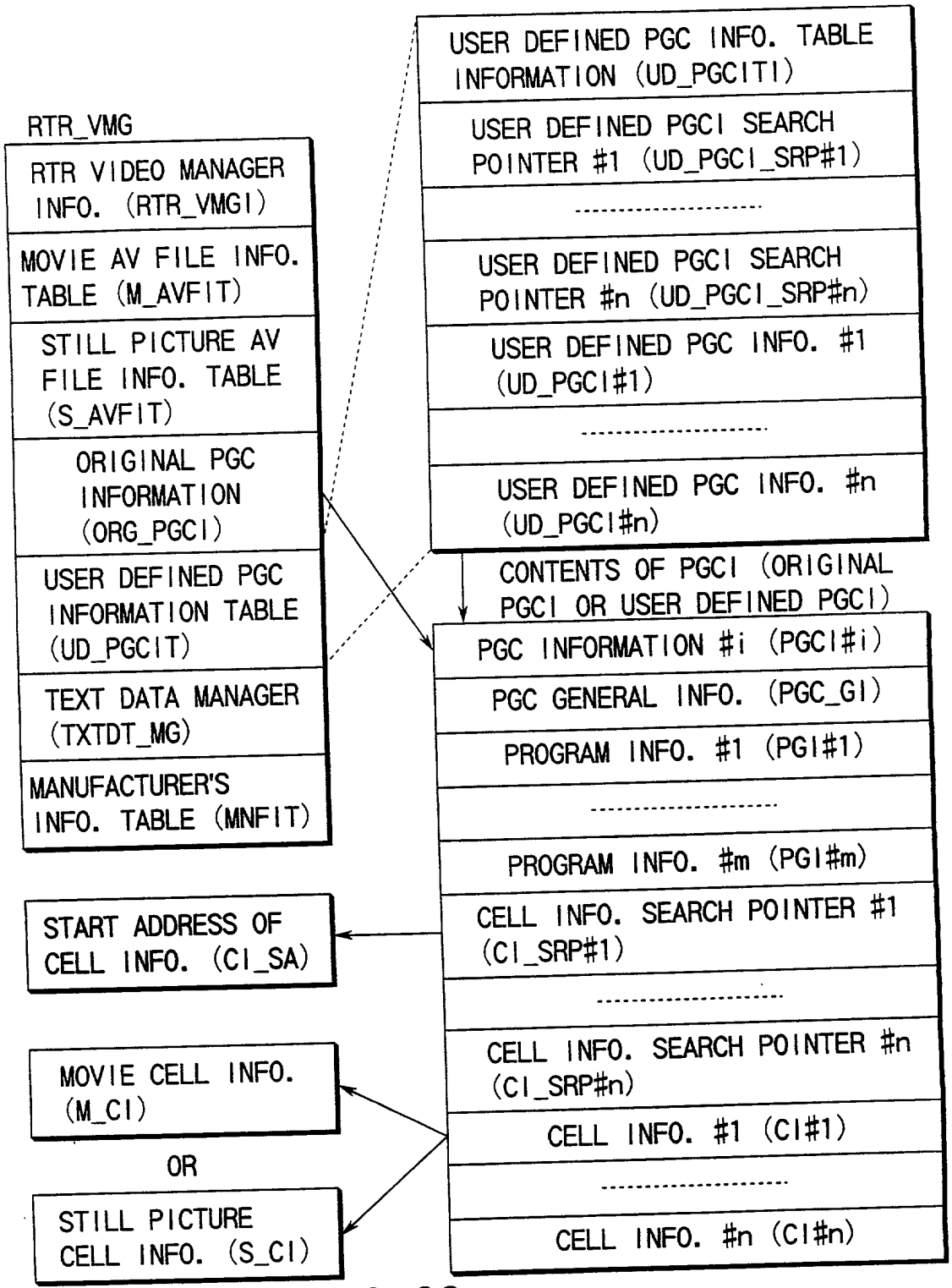

RTR_VMG
RTR VIDEO MANAGER INFO. (RTR_VMGI)
MOVIE AV FILE INFO. TABLE (M_AVFIT)
STILL PICTURE AV FILE INFO. TABLE (S_AVFIT)
ORIGINAL PGC INFORMATION (ORG_PGCI)
USER DEFINED PGC INFORMATION TABLE (UD_PGCIT)
TEXT DATA MANAGER (TXTDT_MG)
MANUFACTURER'S INFO. TABLE (MNFIT)
USER DEFINED PGC INFO. TABLE INFORMATION (UD_PGCITI)
USER DEFINED PGCI SEARCH POINTER #1 (UD_PGCI_SRP#1)
USER DEFINED PGCI SEARCH POINTER #n (UD_PGCI_SRP#n)
USER DEFINED PGC INFO. #1 (UD_PGCI#1)
USER DEFINED PGC INFO. #n (UD_PGCI#n)
CONTENTS OF PGCI (ORIGINAL PGCI OR USER DEFINED PGCI)
PGC INFORMATION #i (PGCI#i)
PGC GENERAL INFO. (PGC_GI)
PROGRAM INFO. #1 (PGI#1)
PROGRAM INFO. #m (PGI#m)
CELL INFO. SEARCH POINTER #1 (CI_SRP#1)
CELL INFO. SEARCH POINTER #n (CI_SRP#n)
CELL INFO. #1 (CI#1)
CELL INFO. #n (CI#n)
START ADDRESS OF CELL INFO. (CI_SA)
MOVIE CELL INFO. (M_CI)
OR
STILL PICTURE CELL INFO. (S_CI)

FIG. 23

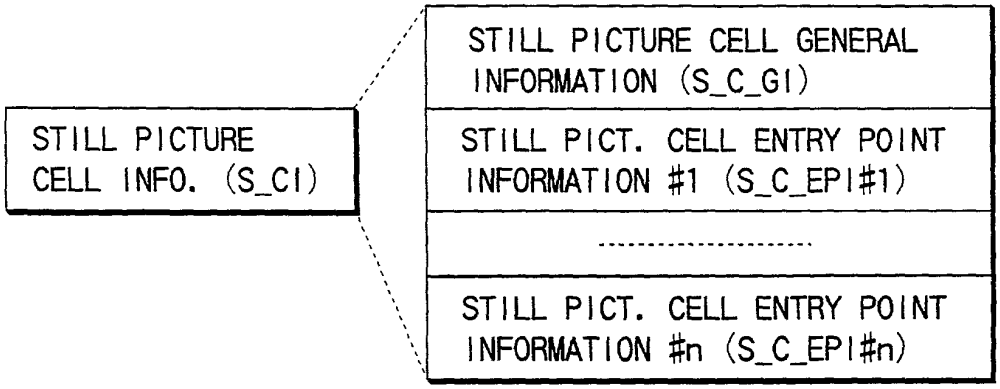


FIG. 24

CONTENTS OF S_C_GI

FIELD NAME	CONTENTS
RESERVED	RESERVED
C_TY	CELL TYPE
S_VOGI_SRPN	S_VOGI SEARCH POINTER NUMBER
C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFO.
S_S_VOB_ENTN	START S_VOB_ENT NUMBER
E_S_VOB_ENTN	END S_VOB_ENT NUMBER

FIG. 25

CONTENTS OF S_C_EPI

FIELD NAME	CONTENTS
EP_TY	ENTRY POINT TYPE
S_VOB_ENTN	S_VOB_ENT NUMBER
PRM_TXTI	PRIMARY TEXT INFORMATION

FIG. 26

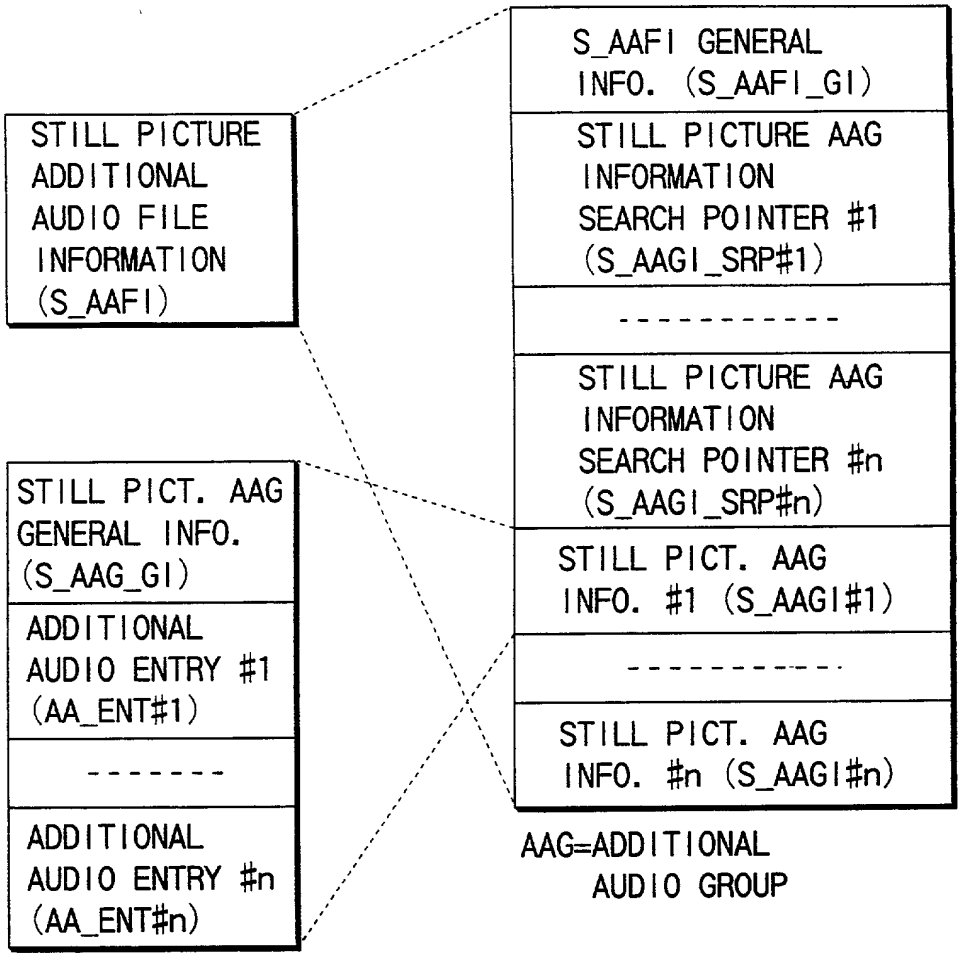


FIG. 27

CONTENTS OF S_AAG_GI

FIELD NAME	CONTENTS
AA_ENT_Ns	NUMBER OF AA_ENT
S_AA_STIN	STILL PICTURE ADDITIONAL AUDIO STREAM INFORMATION NUMBER
S_AAG_SA	START ADDRESS OF THIS AAG IN STILL PICTURE ADDITIONAL AUDIO FILE

FIG. 28

CONTENTS OF AA_ENT

FIELD NAME	CONTENTS
AA_TY	ADDITIONAL AUDIO TYPE
AA_SZ	SIZE OF ADDITIONAL AUDIO STREAM
AA_PB_TM	PLAYBACK TIME OF ADDITIONAL AUDIO STREAM (MEASURED BY VIDEO FIELDS)

FIG. 29

CONTENTS OF S_VOG_GI

FIELD NAME	CONTENTS
S_VOB_Ns	NUMBER OF S_VOBs
S_VOB_STIN	STILL PICTURE VOB STREAM INFORMATION NUMBER
FIRST_VOB_REC_TM	TIME WHEN THE FIRST VOB IN THIS VOB GROUP WAS RECORDED
LAST_VOB_REC_TM	TIME WHEN THE LAST VOB IN THIS VOB GROUP WAS RECORDED
S_VOG_SA	START ADDRESS OF THIS VOB GROUP IN STILL PICTURE AV FILE

FIG. 30

CONTENTS OF S_VOB_ENT (TYPE 1)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART

FIG. 31

CONTENTS OF S_VOB_ENT (TYPE 2)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART (DESCRIBED IN VIDEO FIELDS)

FIG. 32

CONTENTS OF S_VOB_ENT (TYPE 3)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

FIG. 33

CONTENTS OF S_VOB_ENT (TYPE 4)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

FIG. 34

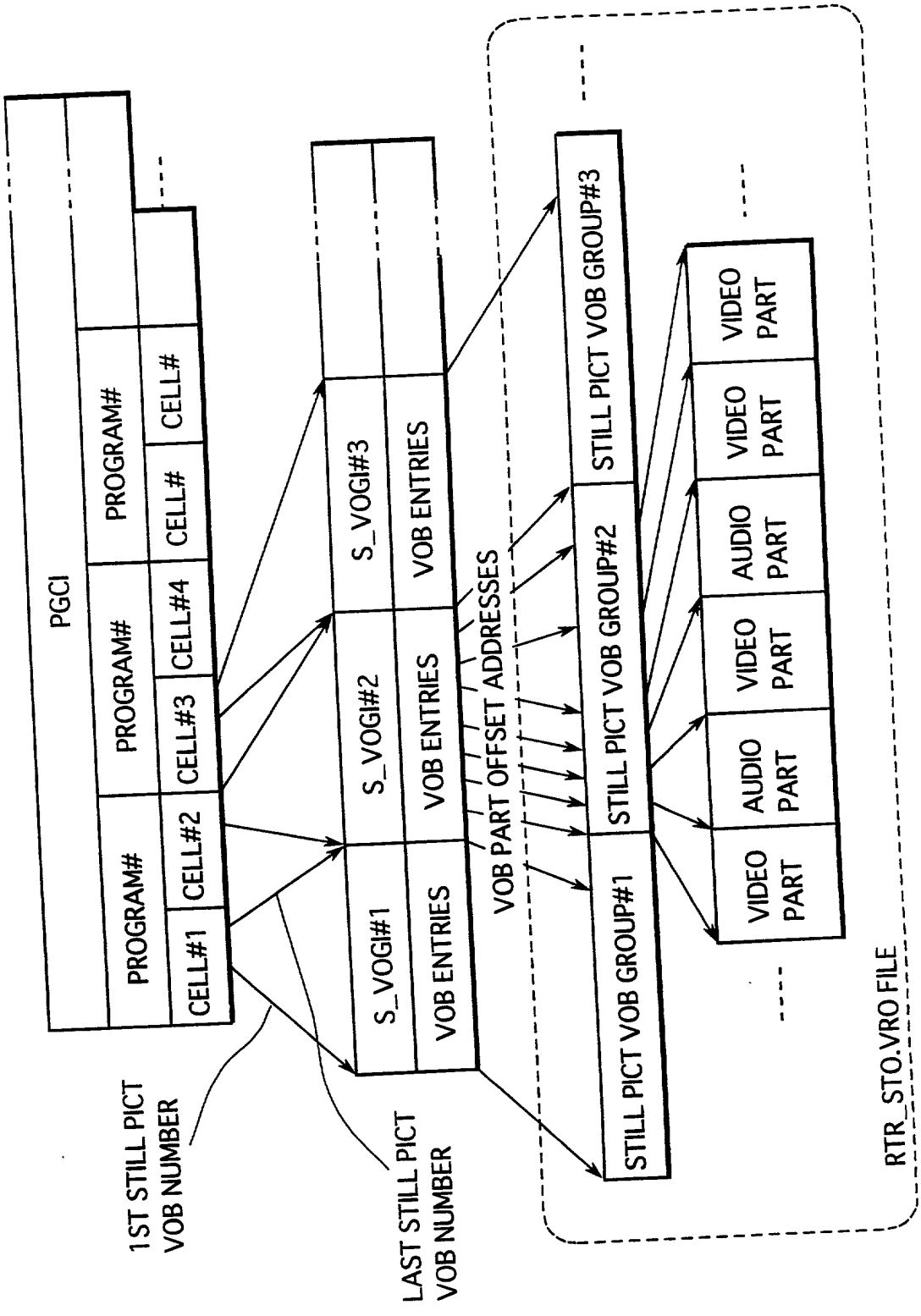

PGCI
PROGRAM#
CELL#1
CELL#2
CELL#3
CELL#4
CELL#
1ST STILL PICT VOB NUMBER
LAST STILL PICT VOB NUMBER
S_VOGI#1
S_VOGI#2
S_VOGI#3
VOB ENTRIES
VOB PART OFFSET ADDRESSES
STILL PICT VOB GROUP#1
STILL PICT VOB GROUP#2
STILL PICT VOB GROUP#3
VIDEO PART
AUDIO PART
RTR_STO.VRO FILE

FIG. 35

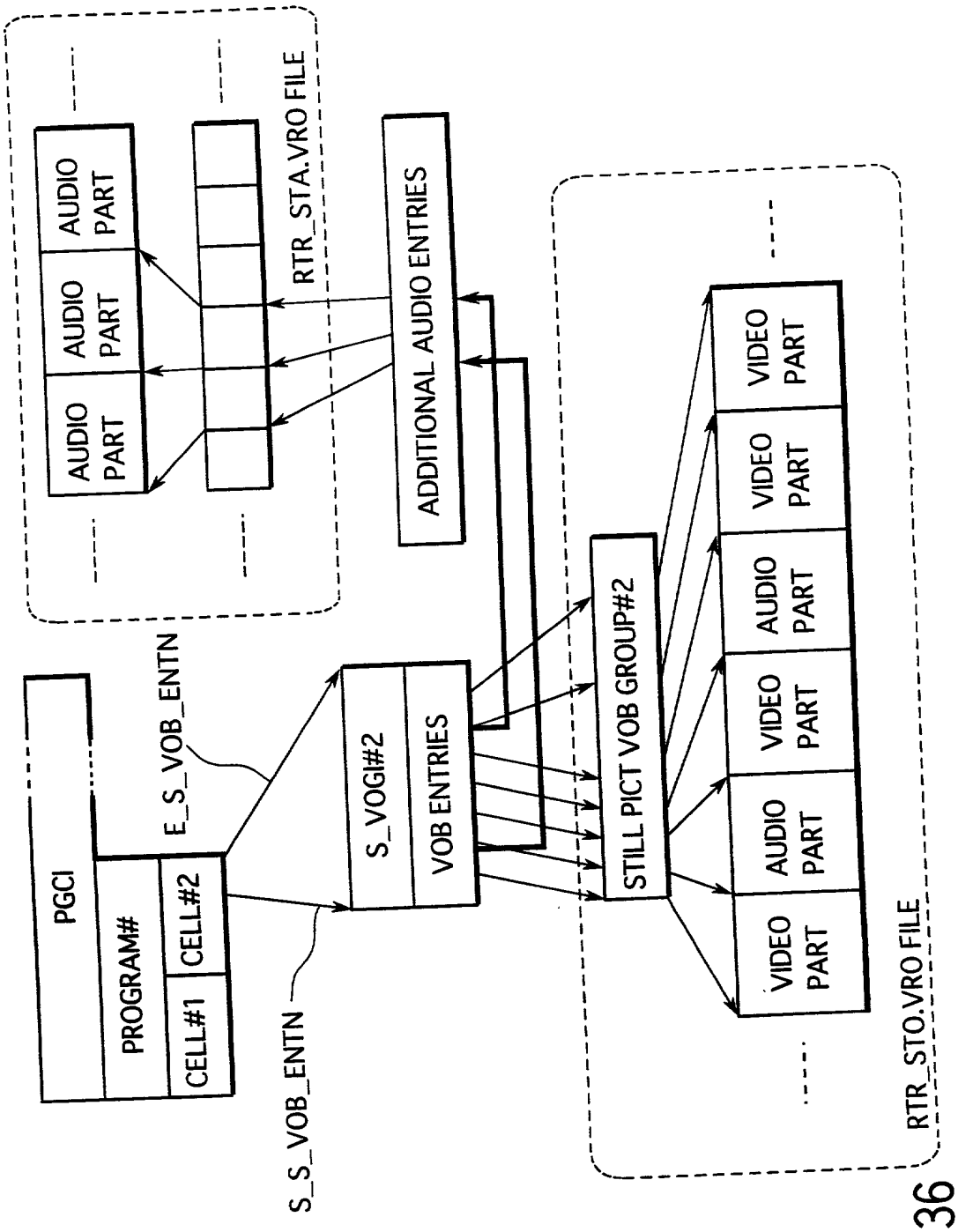

PGCI
PROGRAM#
CELL#1
CELL#2
E_S_VOB_ENTN
S_S_VOB_ENTN
S_VOGI#2
VOB ENTRIES
ADDITIONAL AUDIO ENTRIES
RTR_STA.VRO FILE
AUDIO PART
AUDIO PART
AUDIO PART
STILL PICT VOB GROUP#2
VIDEO PART
VIDEO PART
AUDIO PART
VIDEO PART
AUDIO PART
VIDEO PART
RTR_STO.VRO FILE

FIG. 36

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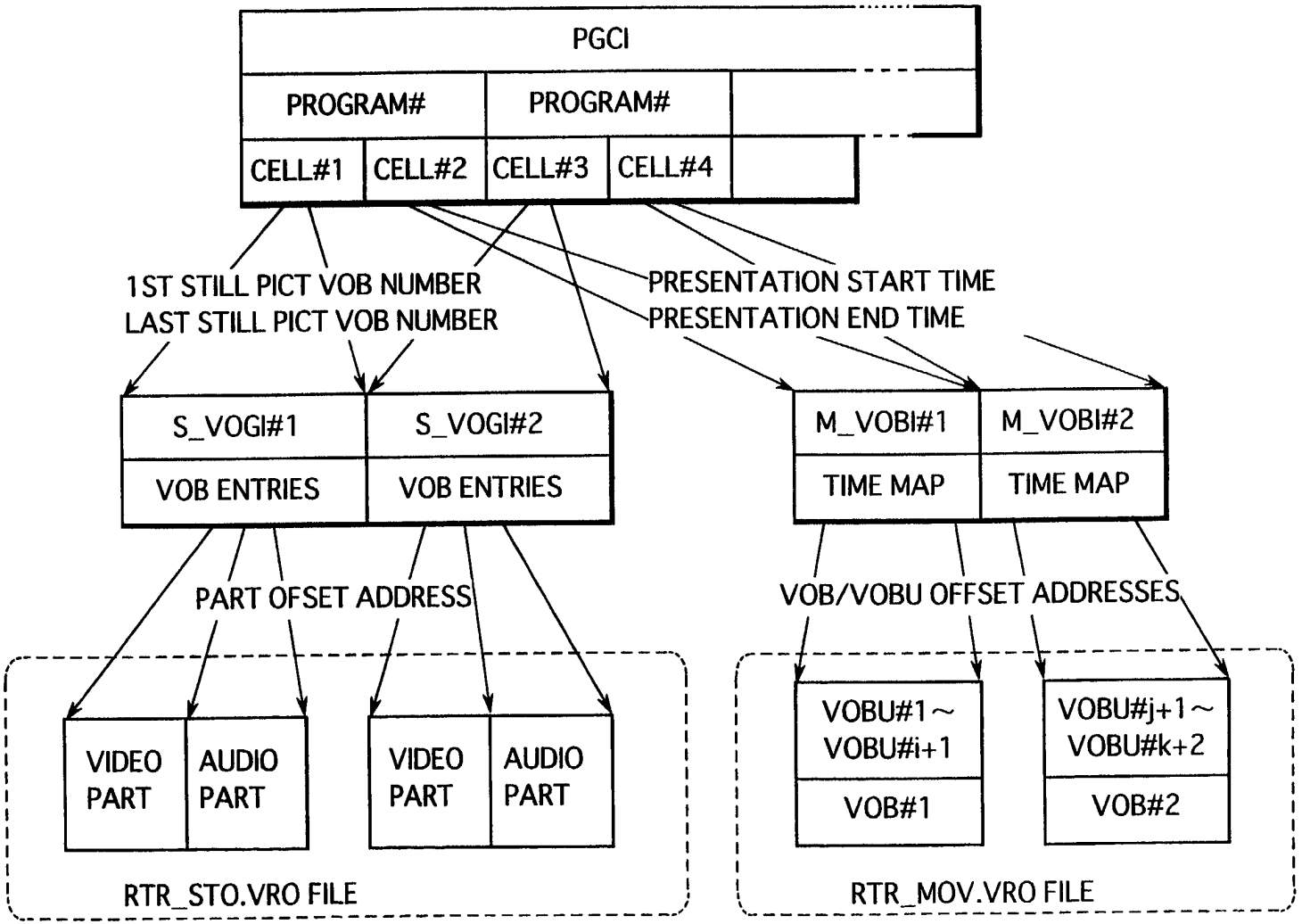

FIG. 37

OBLON SPIVAK, et al.
INVENTOR: Hideo ANDO, et al.
DOCKET # 219507US2S DIV
SHEET 31 OF 32

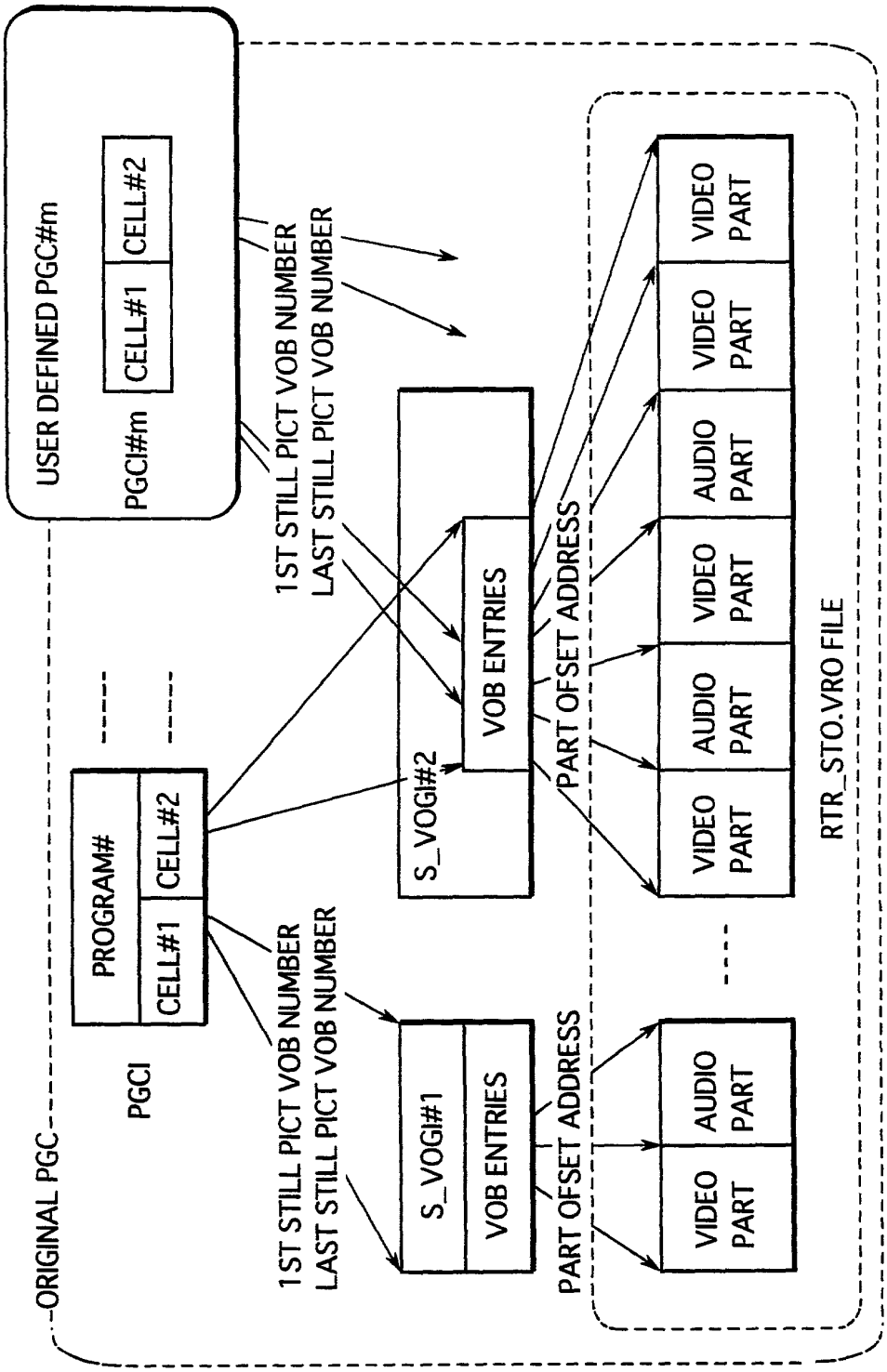
ORIGINAL PGC
USER DEFINED PGC#m
PGCI#m
CELL#1
CELL#2
PGCI
PROGRAM#
CELL#1
CELL#2
1ST STILL PICT VOB NUMBER
LAST STILL PICT VOB NUMBER
S_VOGI#1
VOB ENTRIES
S_VOGI#2
VOB ENTRIES
PART OFSET ADDRESS
VIDEO PART
AUDIO PART
RTR_STO.VRO FILE

FIG. 38